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INTRODUCTION

To comply with the provisions of 49 CFR 225, all railroads are required to file monthly accident/incident reports with the Federal Railroad Administration's (FRA) Office of Safety.

Bulletin 150 summarizes all reportable railroad accidents/incidents that occurred in the United States during 1981, including those involving Canadian railroads operating in the United States.

Railroads must use the reporting forms contained in Appendix B and the FRA Guide for Preparing Accident/Incident Reports, in accordance with 49 CFR 225.11. The forms and the reporting guide are reviewed every two years and if necessary are amended.

The reporting threshold used to determine which accidents must be reported is adjusted to account for the effects of inflation on train accident damage costs. Any train accident exceeding $750 in damages to railroad on-track equipment, signals, track or track structures, and roadbed had to be reported between 1957 and 1974. Since the reporting threshold remained the same during this period, the rise in damage costs due to inflation contributed to an increased number of reported accidents. In 1975, the FRA implemented new reporting rules for railroad accidents. The reporting threshold was raised to $1,750; and a policy of adjusting the threshold every two years was adopted to reflect inflationary changes. The reporting threshold in 1981 was $3,700.

While this change improved the comparability of the data, comparisons were valid only for those years when the threshold was adjusted. Generally, the number of accidents reported in the year following an adjustment is higher. Biennial adjustments not only make year-to-year statistical comparisons difficult, but also impose an unnecessary reporting burden on the railroads. To get a clear picture of annual trends, it is necessary to adjust the second year of a threshold. This had been done for several figures by limiting the count of accidents in 1978 to those resulting in reportable damage of more than $2,600 and in 1980 to those over $3,200, respectively. For other years, the actual number of accidents is reported.

To assess the impact of increases or decreases in accidents/incidents, it is useful to know the number of hours worked (man-hours) and the revenue ton-miles. The 1981 Accident/Incident Bulletin reports data for train accidents and train incidents by billion revenue ton-miles, and data for non-train incidents by 200,000 man-hours.

In 1977, more specific accident/incident cause and occurrence codes were added to the Guide for Preparing Accident/Incident Reports. Some existing codes have been redefined. While totals for major code groupings were not significantly affected by these changes, care should be used in comparing individual codes used before 1977 with those used in 1977 and after.

The heading "Nonfatal Casualties" indicates that both injuries and occupational illnesses are included. In all other cases, nonfatal illnesses are shown separately.

While casualties and accidents at rail-highway crossings are represented in this bulletin, more detailed information is available in the "Rail-Highway Crossing Accident/Incident and Inventory Bulletin" published annually by the FRA Office of Safety.

1. HISTORICAL TRENDS, 1976 THROUGH 1981

OPERATIONS

TABLE H1. RAILROAD OPERATIONAL PROFILE

Year	Man-Hours (000,000)	Motor Train-Miles (000)	Yard Switching-Miles (000)	Locomotive-Miles (000)	Total Train-Miles (000)
1976	1,046	65,989	217,363	491,411	774,763
1977	1,053	32,419	218,544	499,079	750,042
1978	1,056	32,279	214,498	505,187	751,964
1979	1,077	32,274	207,849	523,306	763,429
1980	1,011	32,784	182,340	502,538	717,662
1981	949	30,301	164,754	481,161	676,216

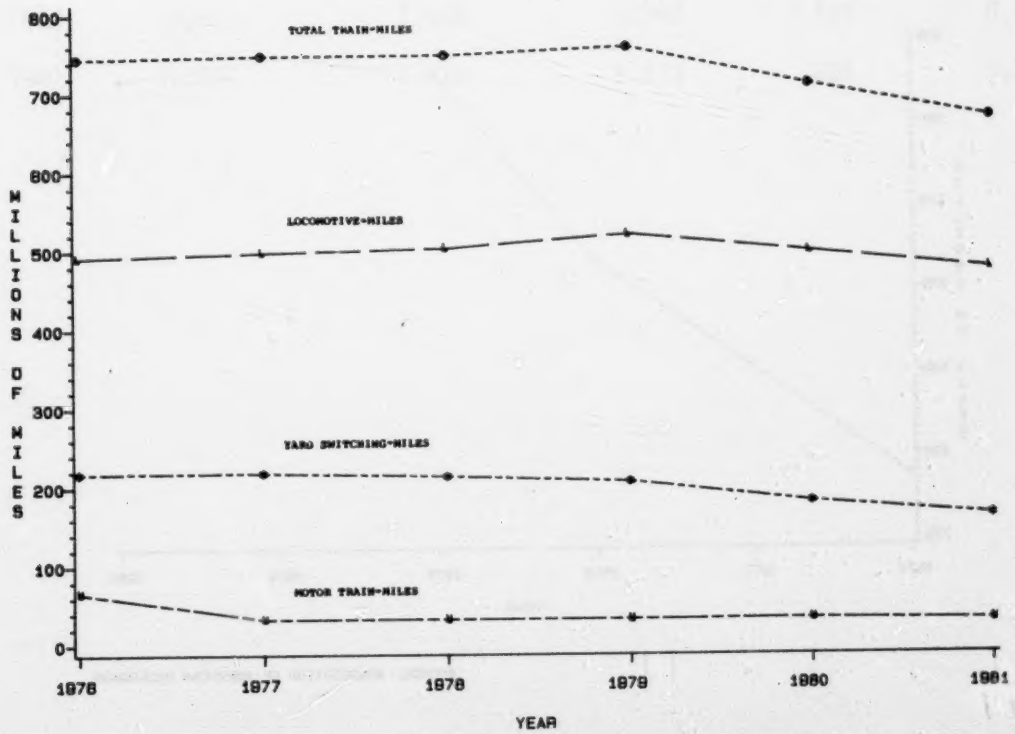
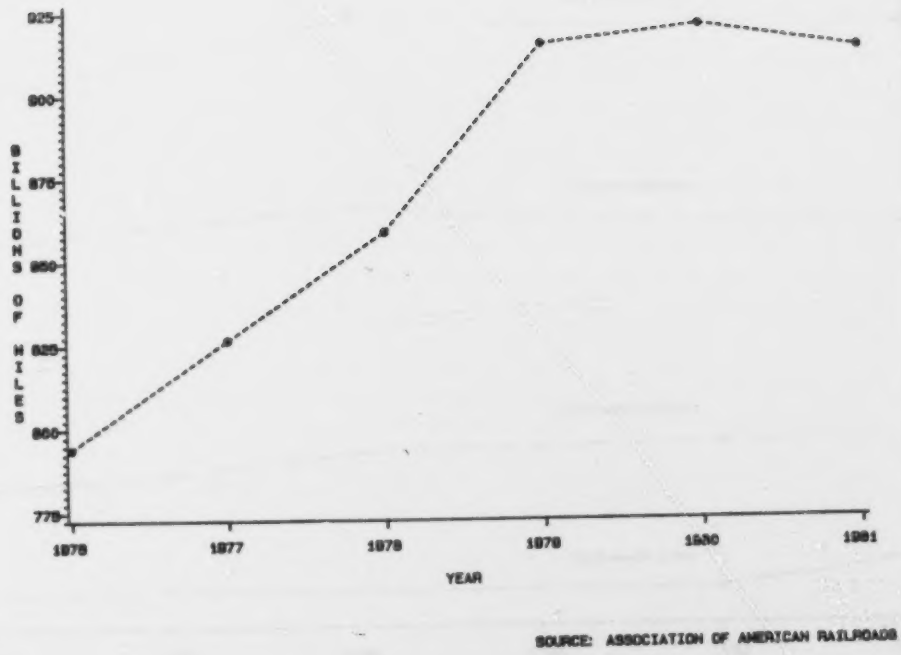


FIGURE 1. RAILROAD TRAIN-MILES, 1976 - 1981

Revenue Ton-Miles, 1976-1981 (Billions)	
1976	794.1
1977	826.3
1978	858.1
1979	913.7
1980	918.6
1981	911.9



SOURCE: ASSOCIATION OF AMERICAN RAILROADS

FIGURE 2. REVENUE TON-MILES, 1976 - 1981

TABLE H3. TRAIN ACCIDENT CAUSES

Year	Human Factors	Mechanical & Electrical Failures	Track Defects	Other	Total Accidents
1976	2,360	2,174	4,260	1,454	10,248
1977	2,559	2,064	4,337	1,402	10,362
1978	2,845	2,170	4,797	1,465	11,277
1979	2,660	1,815	4,050	1,215	9,740
1980	2,323	1,458	3,492	1,178	8,451
1981	1,597	1,016	2,273	895	5,781

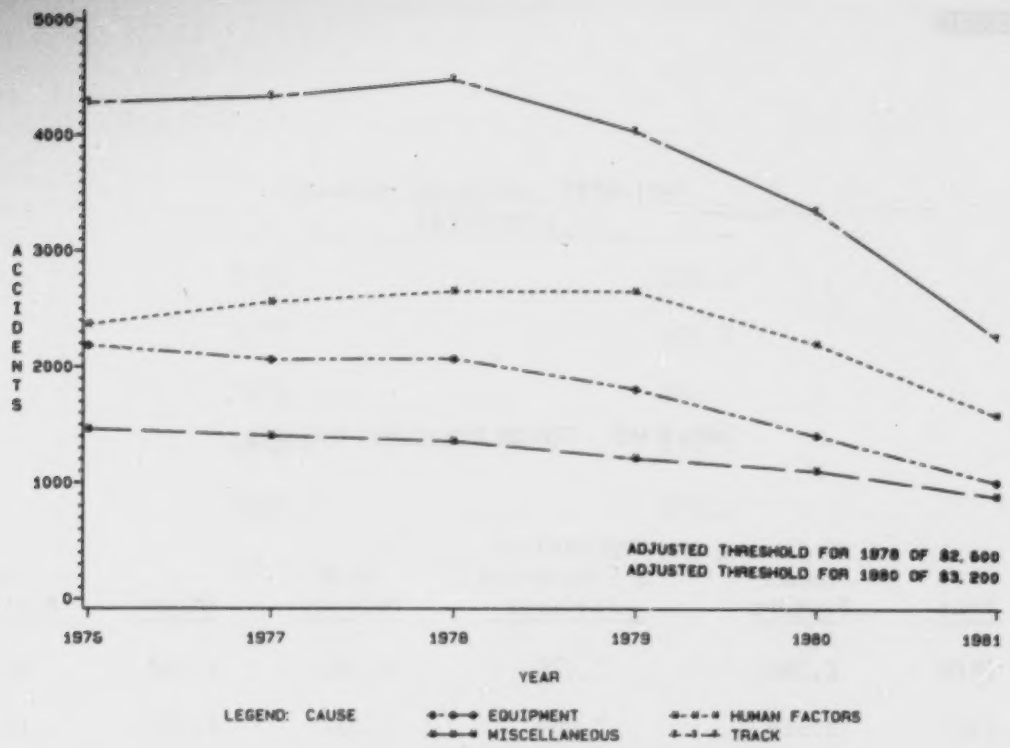


FIGURE 3A. ACCIDENT CAUSES, 1976-1981 - ADJUSTED

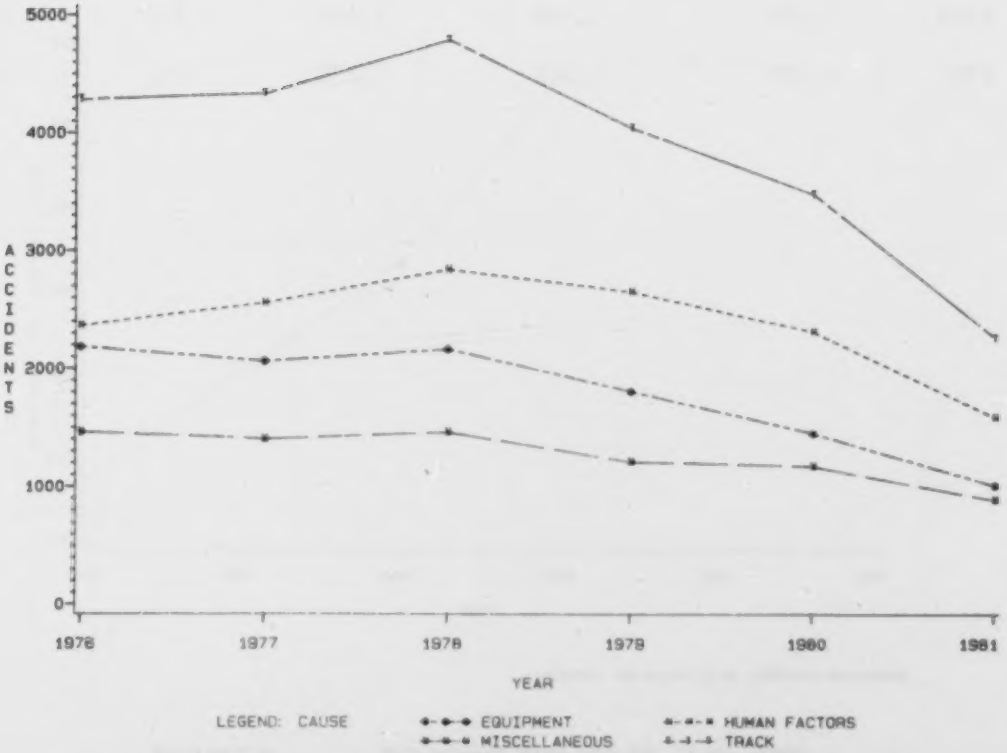


FIGURE 3B. ACCIDENT CAUSES, 1976-1981 - UNADJUSTED

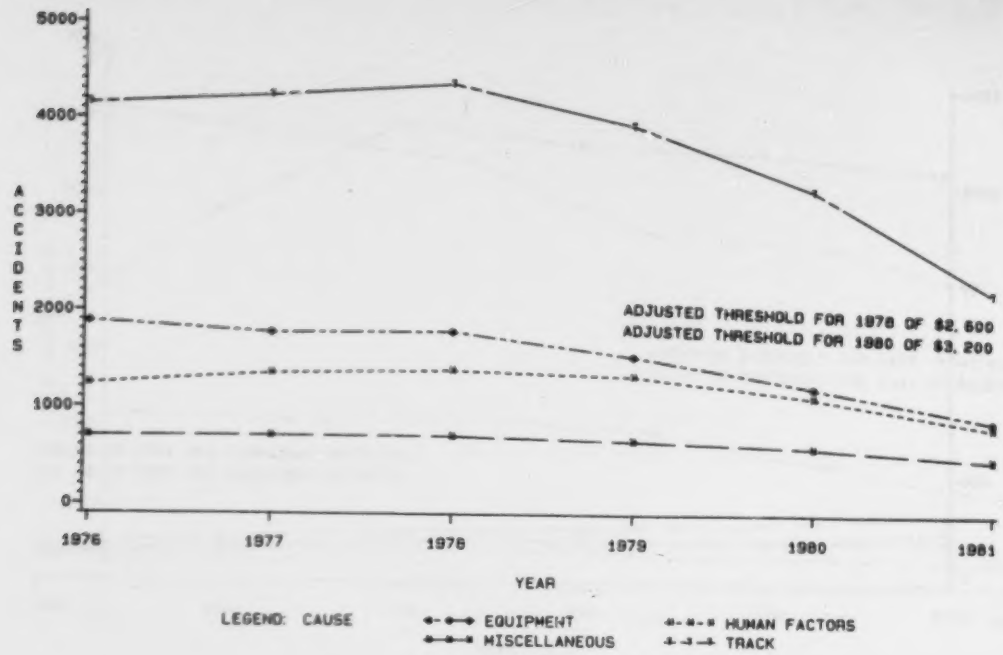


FIGURE 4A. DERAILMENT CAUSES, 1976-1981 - ADJUSTED

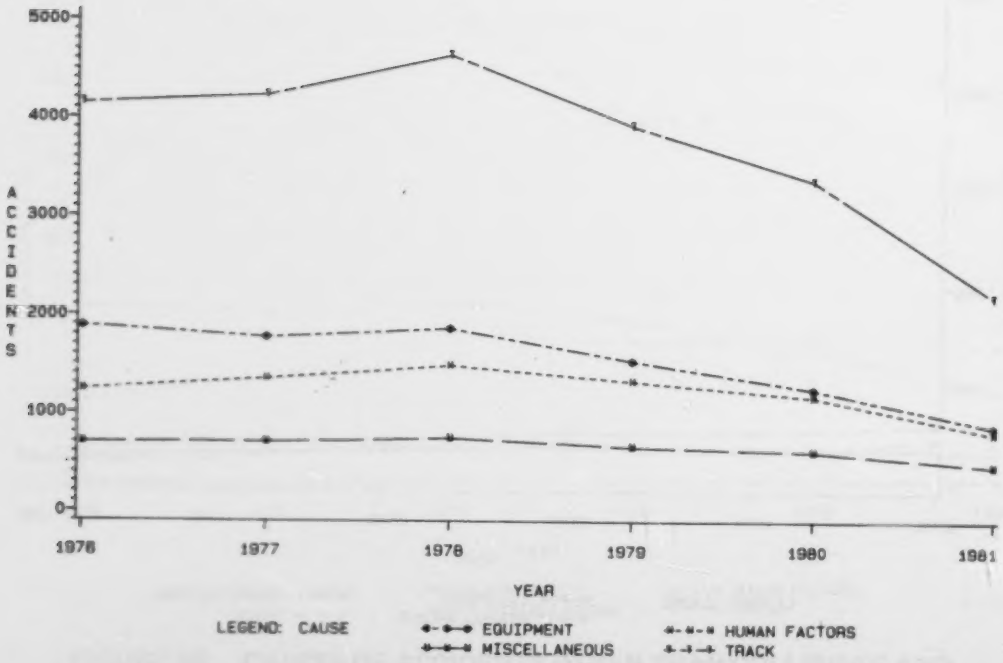


FIGURE 4B. DERAILMENT CAUSES, 1976-1981 - UNADJUSTED

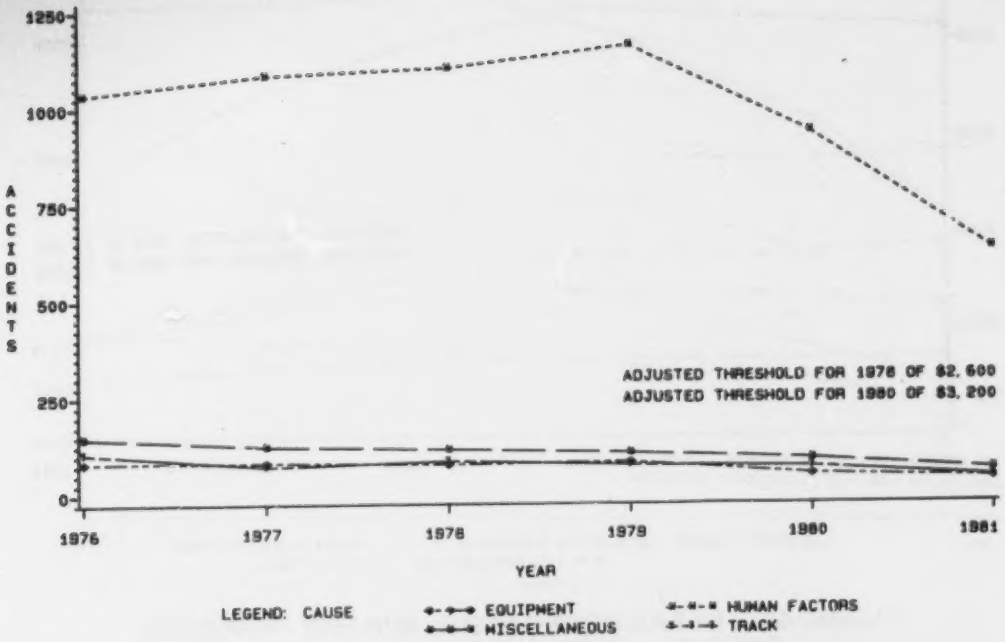


FIGURE 5A. COLLISION CAUSES, 1976-1981 - ADJUSTED

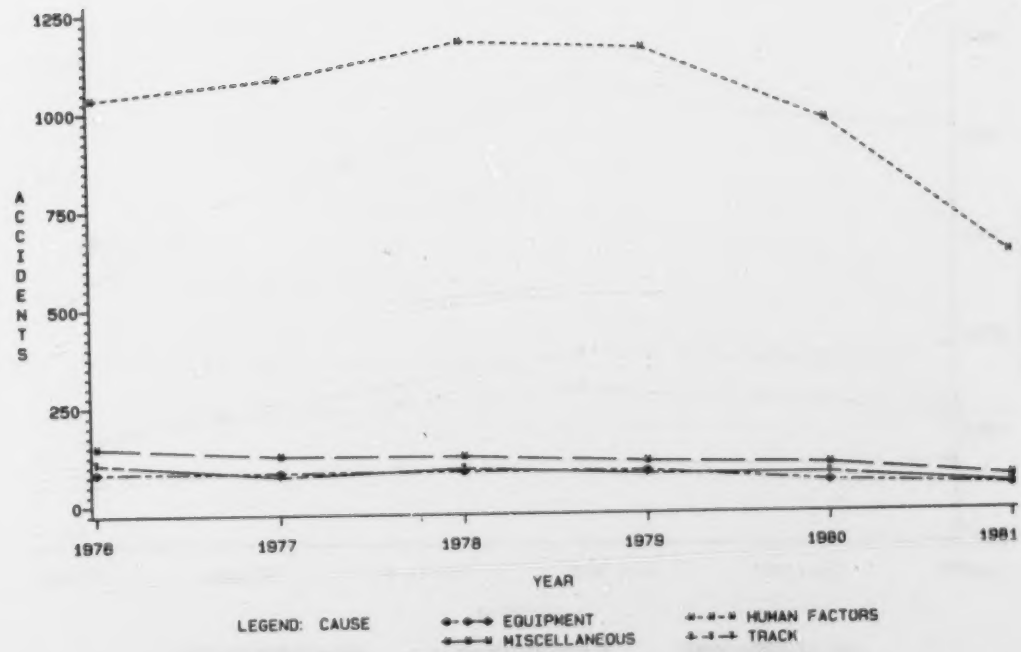


FIGURE 5B. COLLISION CAUSES, 1976-1981 - UNADJUSTED

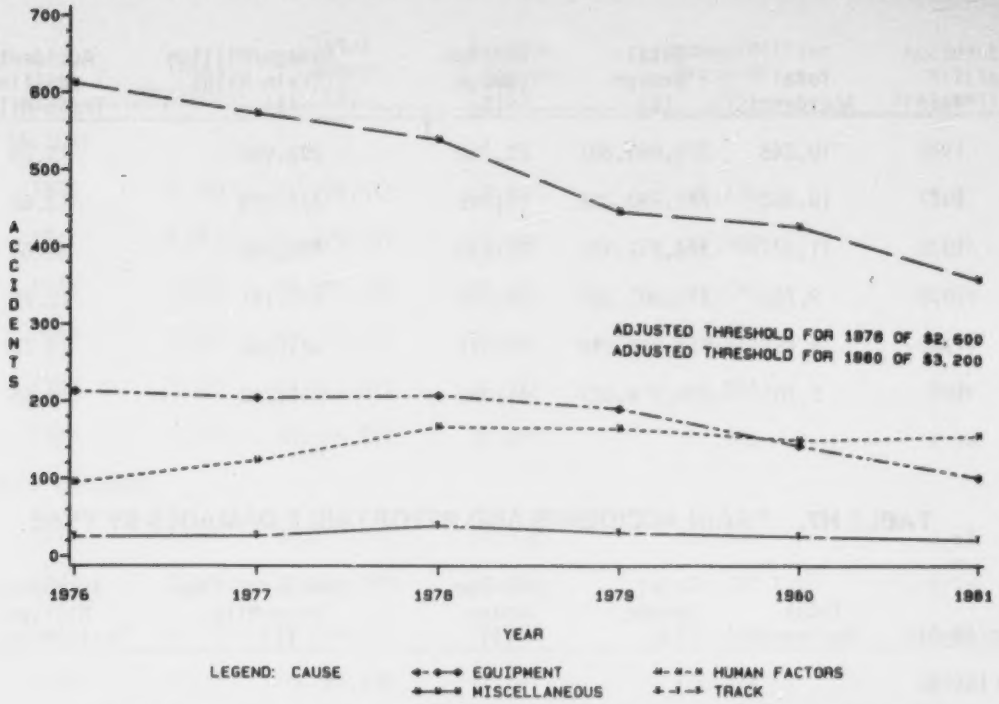


FIGURE 6A. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS, 1976-1981 - ADJUSTED

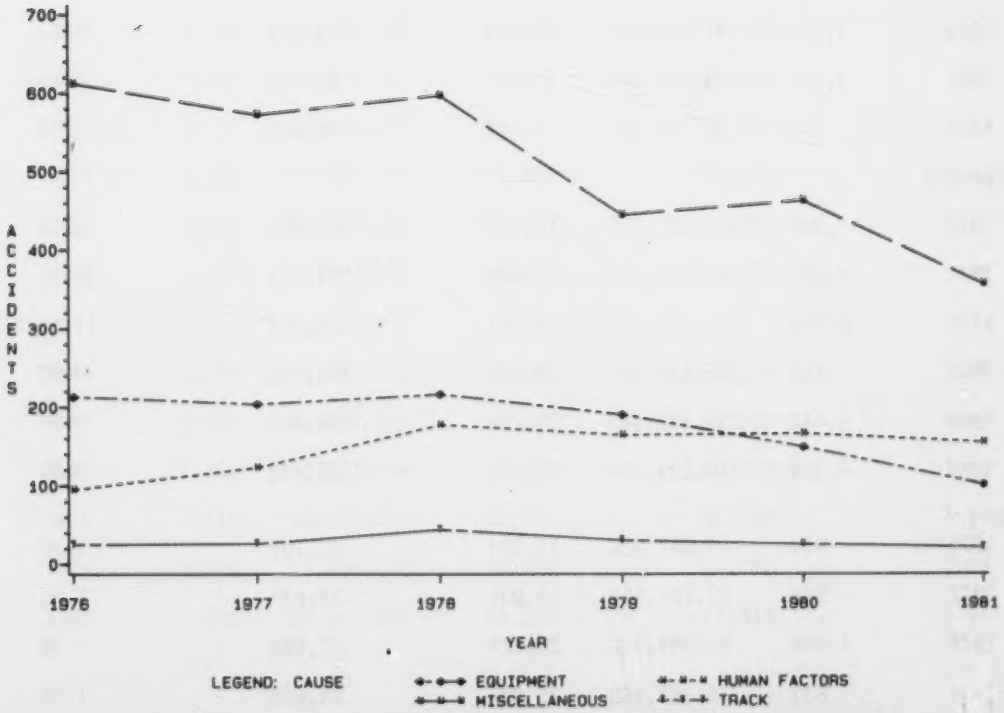


FIGURE 6B. CAUSES OF ACCIDENTS OTHER THAN COLLISIONS AND DERAILMENTS, 1976-1981 - UNADJUSTED

TABLE H6. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRAIN-MILES

Year	Total Accidents	Total Damage ($)	Average Damage ($)	Damage/Million Train-Miles ($)	Accidents/ Million Train-Miles
1976	10,248	226,990,697	22,150	292,980	13.23
1977	10,362	279,450,336	26,969	372,579	13.82
1978	11,277	304,951,427	27,033	405,540	15.00
1979	9,740	313,907,209	32,229	411,181	12.76
1980	8,451	273,905,340	32,411	381,664	11.78
1981	5,781	237,514,603	41,085	351,240	8.55

TABLE H7. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TYPE

Accidents	Total Accidents	Total Damage ($)	Average Damage ($)	Damage/Million Train-Miles ($)	Accidents/ Million Train-Miles
COLLISIONS					
1976	1,370	24,749,012	18,065	31,944	1.77
1977	1,363	34,101,836	25,020	45,467	1.82
1978	1,476	33,630,565	22,772	44,724	1.96
1979	1,425	41,919,343	29,417	54,909	1.87
1980	1,201	39,240,680	32,673	54,679	1.67
1981	776	24,814,627	31,978	36,696	1.15
DERAILMENTS					
1976	7,934	184,273,761	23,226	237,845	10.24
1977	8,073	223,123,541	27,638	297,481	10.76
1978	8,763	250,266,525	28,551	332,819	11.66
1979	7,482	253,630,703	33,899	332,225	9.80
1980	6,442	218,642,543	33,940	304,660	9.98
1981	4,366	184,299,946	42,213	272,546	6.46
OTHER					
1976	944	17,967,924	19,034	23,191	1.22
1977	926	22,224,959	24,001	29,632	1.23
1978	1,038	21,054,337	20,278	27,990	1.38
1979	833	18,357,163	22,037	24,059	1.09
1980	808	16,022,117	19,829	22,325	1.13
1981	639	28,400,030	44,444	41,998	.94

TABLE H8. TRAIN ACCIDENTS AND REPORTABLE DAMAGE BY CAUSE

Year	Total Accidents	Total Damage ($)	Average Damage ($)	Damage/Million Train-Miles ($)	Accidents/ Million Train-Miles
HUMAN FACTORS					
1976	2,360	31,939,411	13,534	41,225	3.05
1977	2,559	65,679,391	25,666	87,568	3.41
1978	2,845	56,007,609	19,675	74,514	3.79
1979	2,660	80,125,870	30,122	105,014	3.49
1980	2,323	63,121,042	27,172	87,954	3.24
1981	1,597	48,474,562	30,354	71,685	2.36
EQUIPMENT FAILURES					
1976	2,174	68,572,507	31,542	88,508	2.81
1977	2,064	70,662,940	34,236	94,212	2.75
1978	2,170	79,266,281	36,528	105,458	2.89
1979	1,815	76,768,530	42,297	100,614	2.38
1980	1,458	56,738,724	38,915	79,061	2.03
1981	1,016	60,480,146	59,528	89,439	1.50
TRACK DEFECTS					
1976	4,260	85,537,356	20,079	110,404	5.50
1977	4,337	96,377,004	22,222	128,495	5.78
1978	4,797	117,145,701	24,412	155,853	6.38
1979	4,050	110,582,493	27,304	144,931	5.31
1980	3,492	108,839,389	31,168	151,658	4.87
1981	2,273	79,997,917	35,195	118,302	3.36
OTHER					
1976	1,454	40,941,423	28,158	52,844	1.88
1977	1,402	46,731,001	33,332	62,304	1.87
1978	1,465	52,531,836	35,851	69,890	1.95
1979	1,215	46,430,316	38,214	60,852	1.59
1980	1,178	45,206,185	38,375	62,991	1.64
1981	895	48,561,978	54,259	71,814	1.32

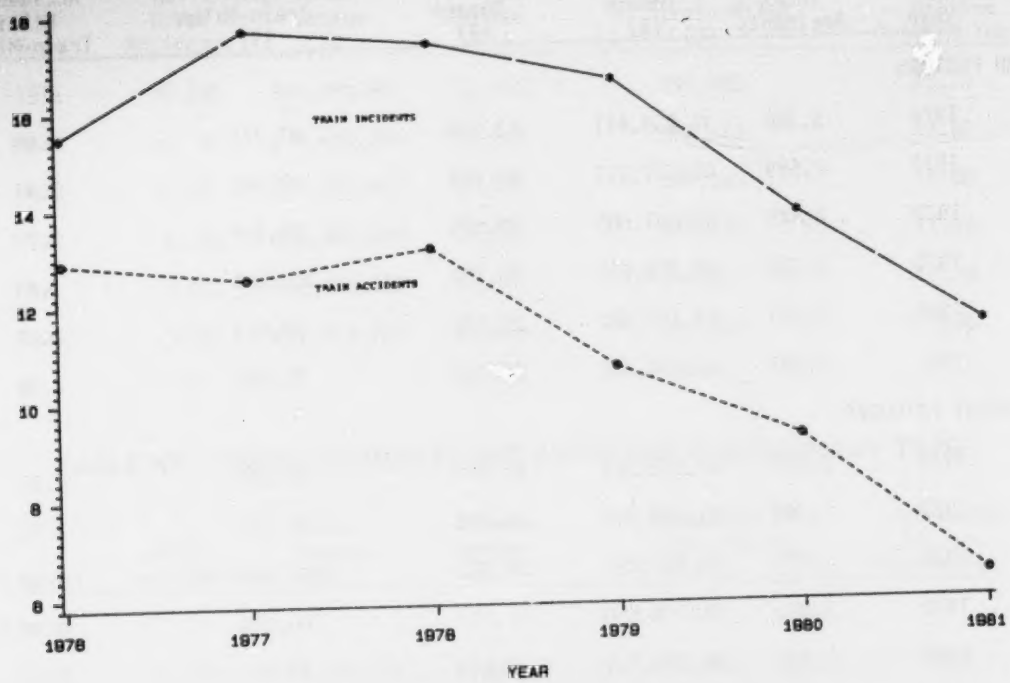


FIGURE 7. TOTAL TRAIN ACCIDENTS AND TRAIN INCIDENTS PER BILLION REVENUE TON-MILES

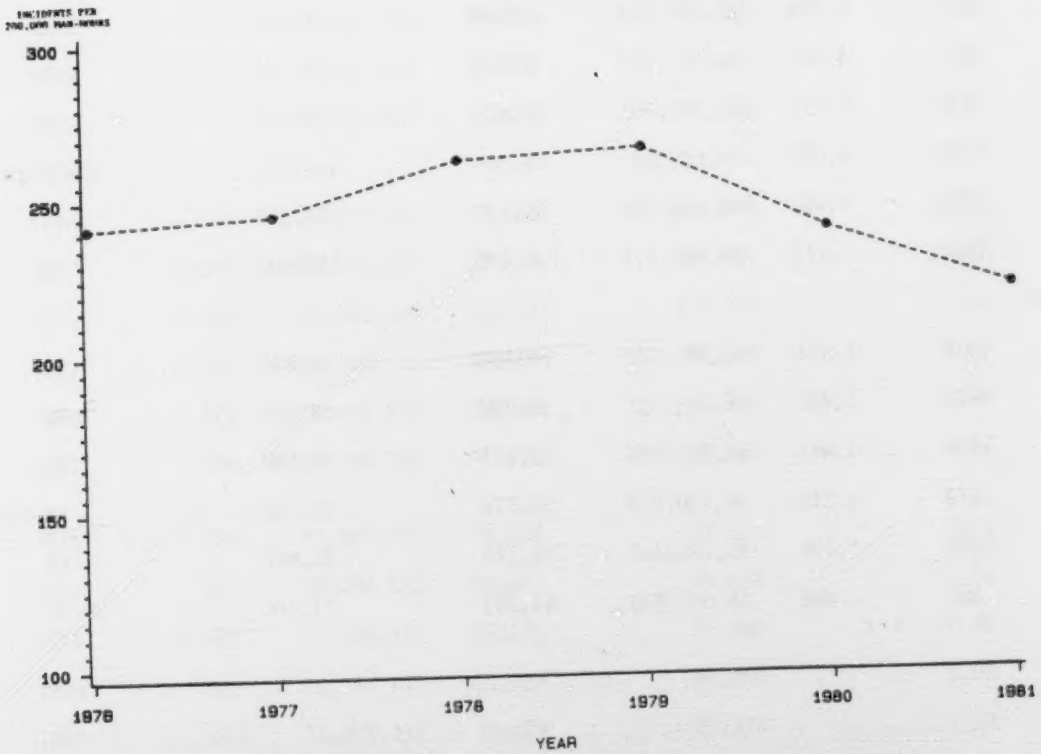


FIGURE 8. NONTRAIN INCIDENTS PER 200,000 MAN-HOURS

TABLE H2. TOTAL ACCIDENTS/INCIDENTS

Year	Train Accidents	Train Incidents	Nontrain Incidents	Total
1976	10,248	12,303	50,532	73,083
1977	10,362	14,611	51,601	76,574
1978	11,277	14,918	55,391	81,586
1979	9,740	15,159	57,213	82,112
1980	8,451	12,686	48,398	69,535
1981	5,781	10,485	41,757	58,023

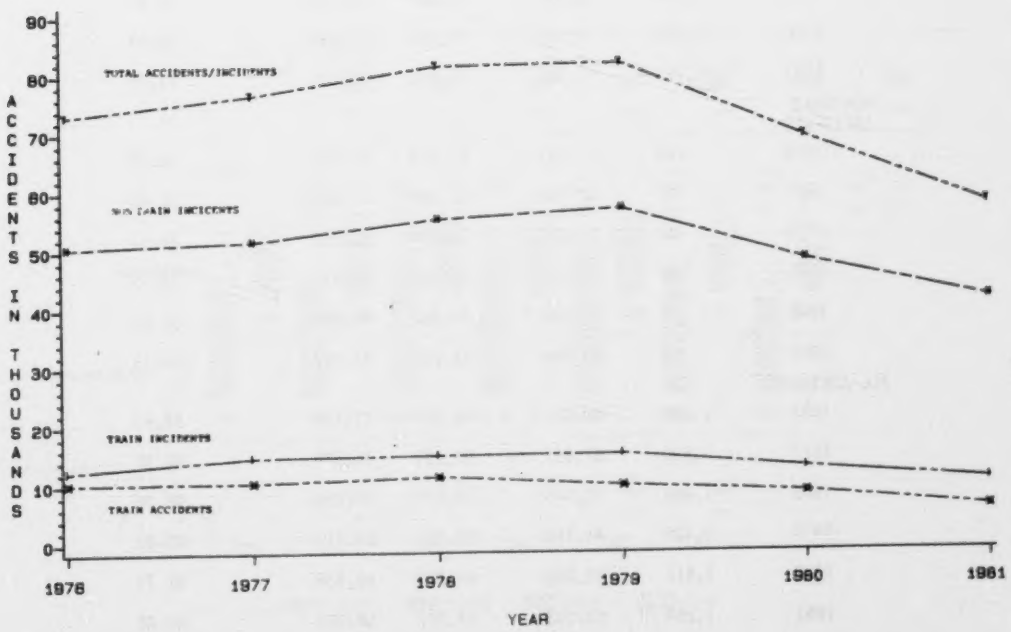


FIGURE 9. TOTAL ACCIDENTS/INCIDENTS, 1976-1981

CASUALTIES

TABLE H4. CASUALTIES IN ACCIDENTS/INCIDENTS

Class of Acc/Inc by Year	Fatal	Nonfatal	Total	Total Accidents	Casualties per Million Train Miles
TRAIN ACCIDENTS					
1976	152	1,279	1,431	10,248	1.85
1977	108	985	1,093	10,362	1.46
1978	139	1,911*	2,050	11,277	2.73
1979	100	1,275	1,375	9,740	1.80
1980	97	860	957	8,451	1.33
1981	63	562	625	5,781	.92
TRAIN INCIDENTS					
1976	1,259	12,648	13,907	12,368	17.94
1977	1,340	14,876	16,216	14,611	21.62
1978	1,427	15,014	16,441	14,918	21.86
1979	1,245	15,414	16,659	15,159	21.83
1980	1,242	12,802	14,044	12,686	19.57
1981	1,157	10,505	11,662	10,485	17.25
NONTRAIN INCIDENTS					
1976	219	51,404	51,623	50,535	66.63
1977	82	52,006	52,088	51,601	69.45
1978	80	55,620	55,700	55,391	74.07
1979	84	57,437	57,521	57,213	75.39
1980	78	48,584	48,662	48,398	67.81
1981	64	41,936	42,000	41,757	62.11
ALL ACCIDENTS					
1976	1,630	65,331	66,961	73,151	86.43
1977	1,530	67,867	69,397	76,574	92.52
1978	1,646	72,545	74,191	81,856	98.66
1979	1,429	74,126	75,555	82,112	99.02
1980	1,417	62,246	63,663	69,535	88.71
1981	1,284	53,003	54,287	58,023	80.28

*Included is an ICG commuter train accident, which on January 26, 1978, resulted in 558 nonfatal casualties.

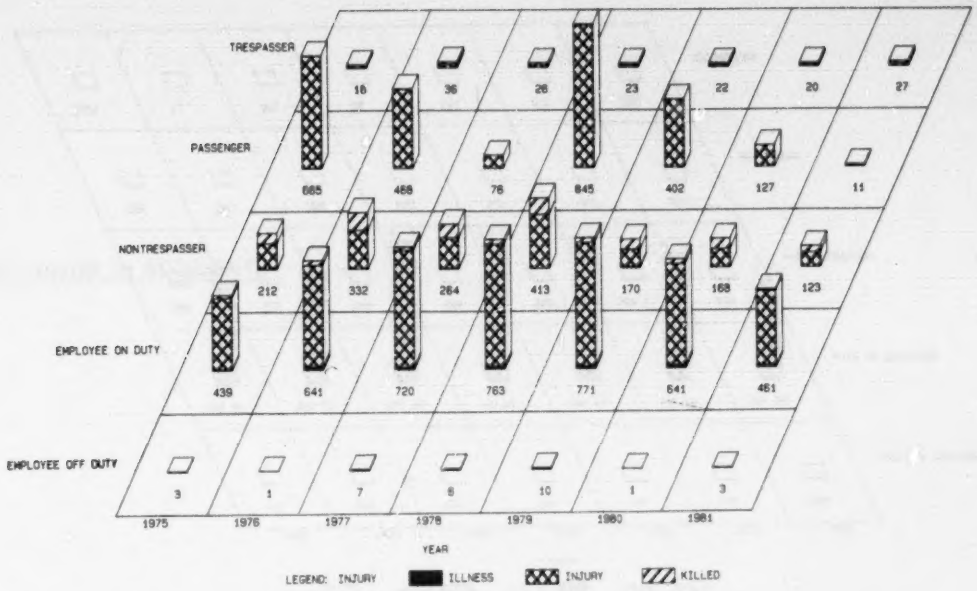


FIGURE 10. CASUALTIES IN TRAIN ACCIDENTS, 1975-1981

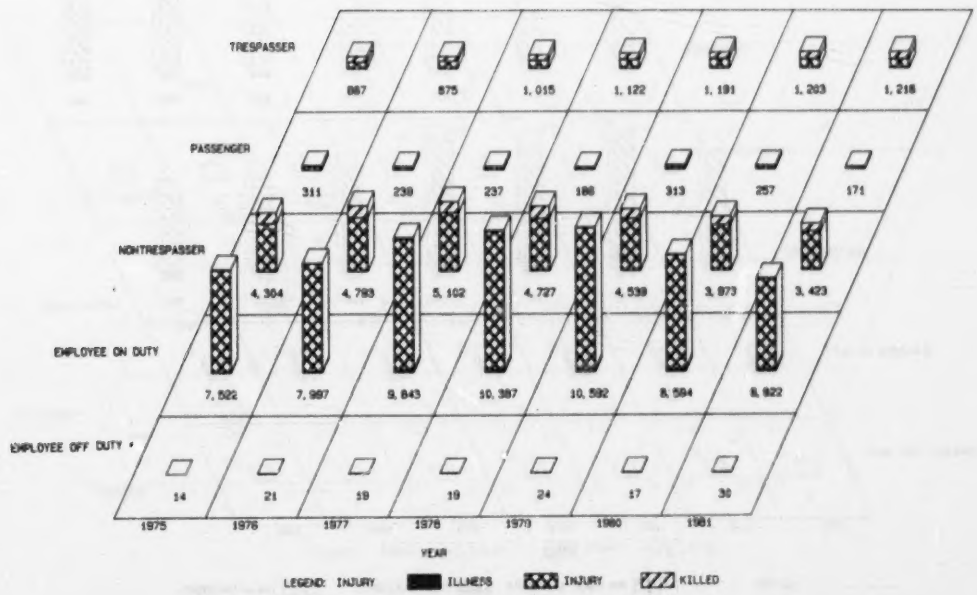


FIGURE 11. CASUALTIES IN TRAIN INCIDENTS, 1975-1981

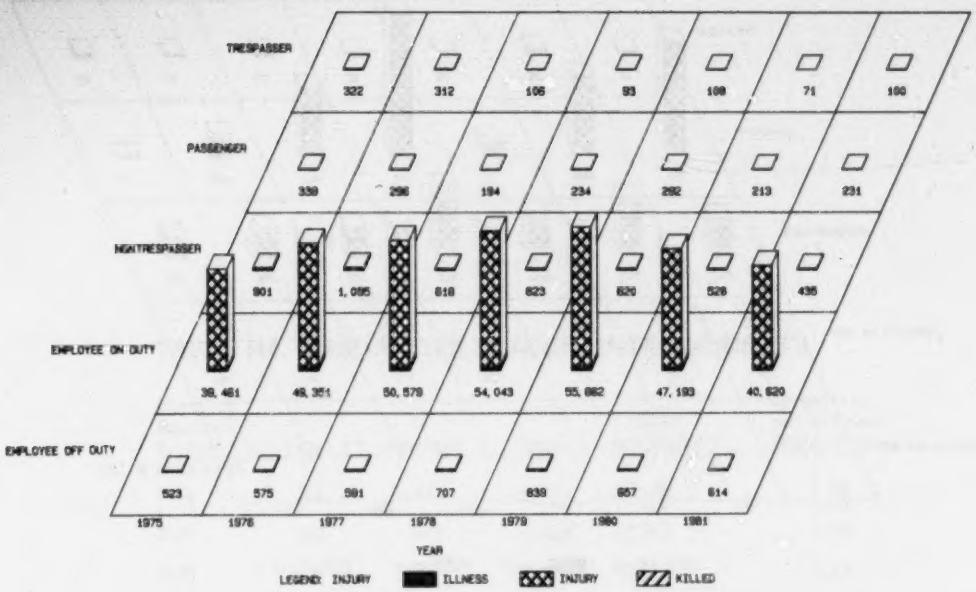


FIGURE 12. CASUALTIES IN NON-TRAIN INCIDENTS, 1975-1981

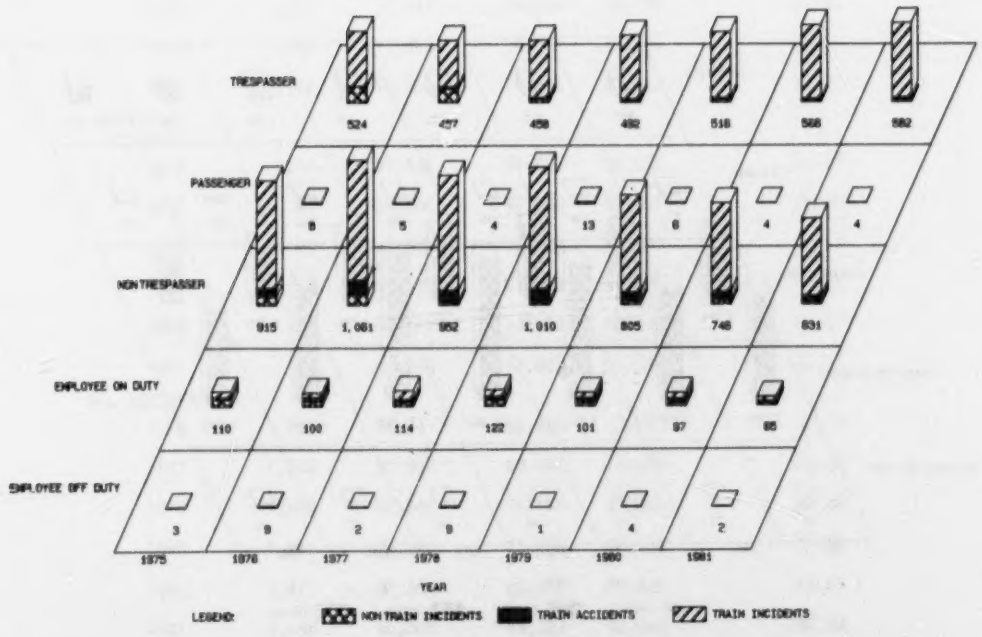


FIGURE 13. FATALITIES IN ACCIDENTS/INCIDENTS, 1975-1981

2. OVERVIEW OF 1981 DATA

SPEED FACTOR IN ACCIDENTS

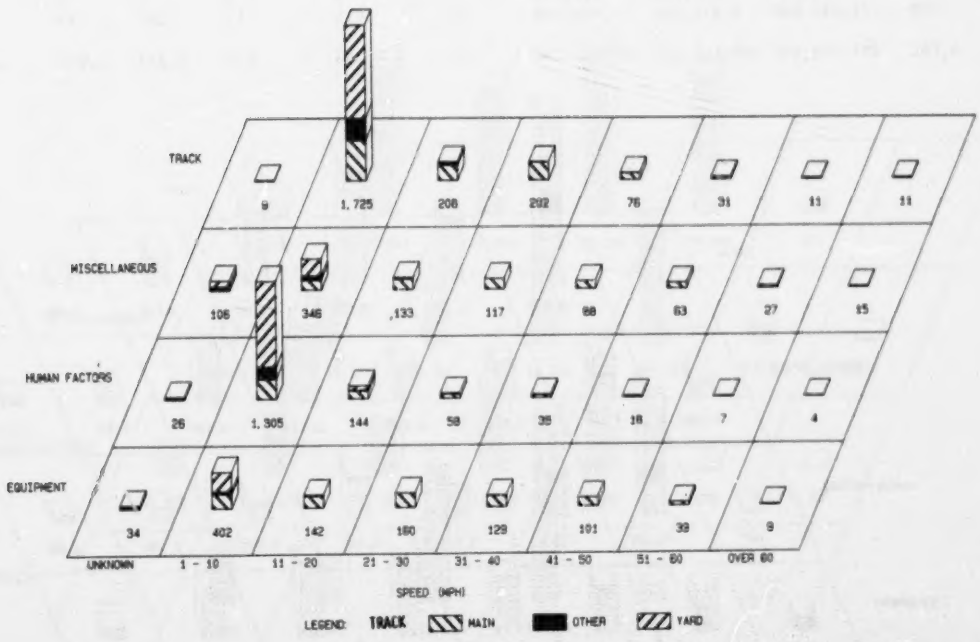


FIGURE 14. CAUSES OF ACCIDENTS BY TYPE OF TRACK AND CONSIST SPEED

TABLE S44. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY SPEED

CONSIST SPEED	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
ACCIDENTS ON MAIN LINE TRACK											
UNKNOWN	33	2,170,641	1,077,606	1,093,035	1	16	16	2	12	3	16
1-10	938	23,845,737	17,345,755	6,499,982	85	793	60	447	161	220	110
11-20	501	28,506,698	20,828,603	7,678,095	32	416	53	167	131	86	117
21-30	520	39,316,686	32,211,861	7,104,825	17	444	59	198	158	49	115
31-40	320	42,383,946	36,226,572	6,157,374	24	238	58	75	126	31	88
41-50	211	29,135,795	24,813,956	4,321,839	10	137	64	29	101	18	63
51-60	84	15,284,718	13,037,788	2,246,930	4	54	26	11	39	7	27
61-70	17	3,635,669	3,279,708	355,961	0	10	7	6	7	1	3
71-80	16	3,485,659	3,349,900	135,759	0	2	14	4	1	0	11
81-90	3	294,200	269,000	25,200	0	0	3	1	1	0	1
SUBTOTAL	2,643	188,059,749	152,440,749	35,619,000	173	2,110	360	940	737	415	551
ACCIDENTS ON YARD TRACK											
UNKNOWN	107	1,968,917	1,915,152	53,765	5	28	74	7	17	16	67
1-10	2,387	32,820,726	24,636,326	8,184,400	511	1,729	147	1,036	213	946	192
11-20	88	2,281,469	1,691,980	589,489	26	53	9	19	9	48	12
21-30	9	366,155	273,489	92,666	3	5	1	1	1	6	1
31-40	3	111,291	104,525	6,766	1	2	0	1	0	2	0
41-50	2	28,000	24,000	4,000	0	2	0	2	0	0	0
61-70	1	6,350	1,400	4,950	0	1	0	0	0	1	0
71-80	1	4,900	4,800	100	0	0	1	0	0	1	0
>=91	1	99,186	49,500	49,686	0	1	0	0	0	1	0
SUBTOTAL	2,599	37,686,994	28,701,172	8,985,822	546	1,821	232	1,066	240	1,021	272
ACCIDENTS ON INDUSTRY, SIDING OR UNKNOWN TRACK TYPE											
UNKNOWN	35	2,078,694	1,994,177	84,517	4	10	21	0	5	7	23
1-10	453	6,847,524	5,070,290	1,777,234	48	382	23	242	28	138	45
11-20	38	1,529,336	1,143,855	385,481	2	34	2	22	2	10	4
21-30	8	442,854	361,150	81,704	1	6	1	3	1	3	1
31-40	5	869,452	749,950	119,502	2	3	0	0	3	2	0
SUBTOTAL	539	11,767,860	9,319,422	2,448,438	57	435	47	267	39	160	73
TOTAL...	5,781	237,514,603	190,461,343	47,053,260	776	4,366	639	2,273	1,016	1,596	896

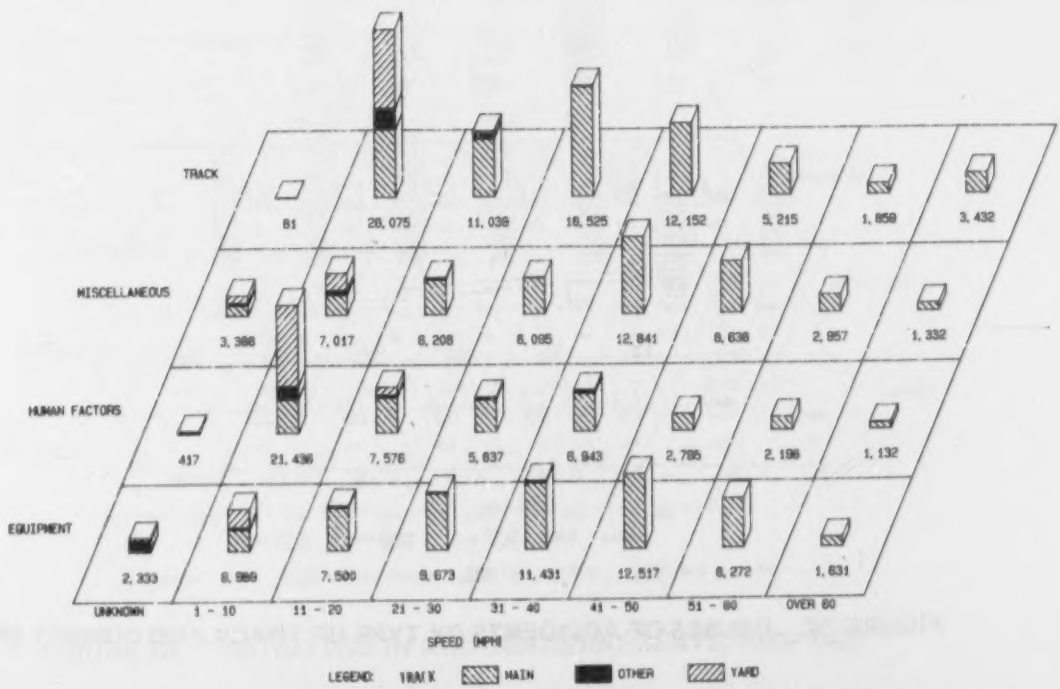


FIGURE 15. ACCIDENT DAMAGES BY SPEED AND CAUSE ($ 000's)

TABLE S45. TRAIN ACCIDENTS AND REPORTABLE DAMAGES BY TRACK CLASS

TRACK CLASS	TOTAL ACCIDENTS	TOTAL DAMAGE	EQUIPMENT DAMAGE	TRACK DAMAGE	COLLISIONS	DERAILMENTS	OTHER ACCIDENTS	TRACK CAUSED	EQUIPMENT FAILURE	HUMAN FACTORS	OTHER CAUSES
?	335	5,443,372	3,976,372	1,467,000	58	257	20	140	26	126	43
1	2,913	51,764,562	40,054,842	11,709,720	508	2,153	252	1,292	284	1,018	319
2	937	39,157,523	28,406,774	10,750,749	85	769	83	418	155	202	162
3	885	64,131,839	52,652,607	11,479,232	71	701	113	279	274	137	195
4	648	70,727,824	60,690,419	10,037,405	47	448	153	134	257	101	156
5	57	5,932,783	4,362,129	1,570,654	5	37	15	10	19	11	17
6	6	356,700	318,200	38,500	2	1	3	0	1	1	4
TOTAL	5,781	237,514,603	190,461,343	47,053,260	776	4,366	639	2,273	1,016	1,596	896

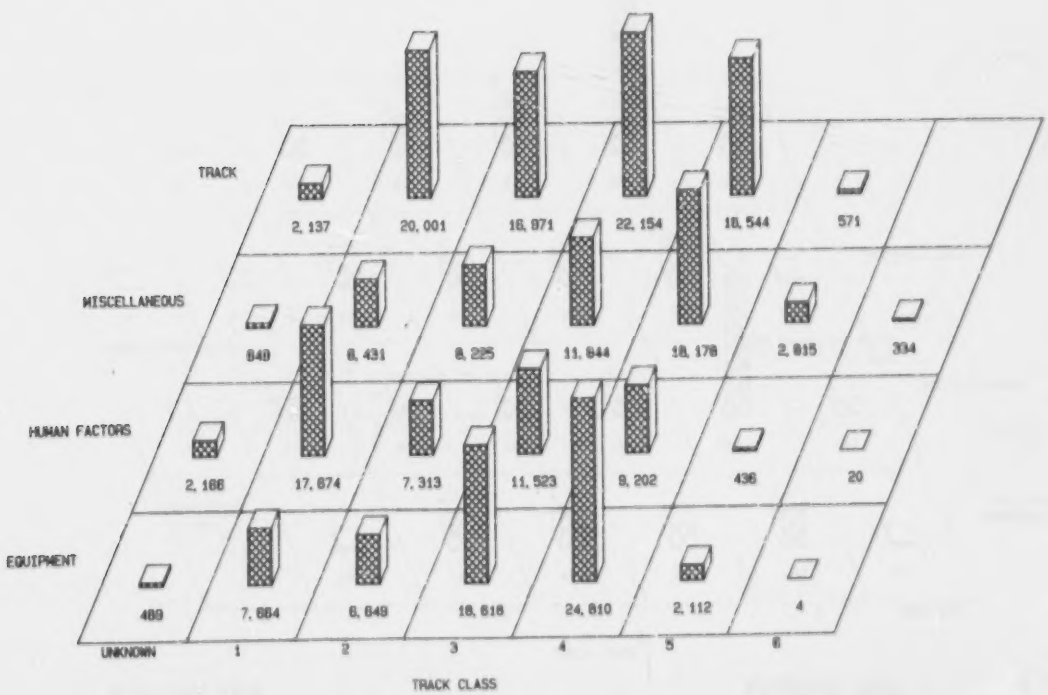


FIGURE 16. ACCIDENT DAMAGES BY TRACK CLASS AND CAUSE ($ 000's)

TABLE S40B. REPORTABLE DAMAGES IN TRAIN ACCIDENTS BY TYPE AND CAUSE

Type of Accident	...Track Caused... Trk Dmg	Eqp Dmg	.Equipment Caused. Trk Dmg	Eqp Dmg	...Human Factors.. Trk Dmg	Eqp Dmg	...Other Causes... Trk Dmg	Eqp Dmg	.....Total Damage..... Trk Dmg	Eqp Dmg
Derailment	16,190,878	62,844,154	14,506,016	40,638,144	5,349,290	18,856,682	6,731,056	19,183,726	42,777,240	141,522,706
Head on collision	---	---	---	4,000	90,417	4,362,734	300	15,000	90,717	4,381,734
Rear end collision	15,500	22,280	5,000	11,052	158,868	5,926,012	15,320	718,758	194,688	6,678,102
Side collision	56,976	278,868	11,876	156,162	566,628	9,453,049	36,827	1,068,080	672,307	10,956,159
Raking collision	15,435	122,700	77,081	61,980	54,578	553,821	61,887	185,645	208,981	924,146
Broken trn collision	7,500	27,500	32,300	484,290	26,675	129,528	---	---	66,475	641,318
Rail-hwy crossing	---	---	---	---	8,000	3,000	1,305,863	14,095,207	1,313,863	14,098,207
RR grade crossing	---	---	---	---	---	---	---	---	---	---
Obstruction	---	---	41,343	6,700	4,330	116,190	118,482	1,309,199	164,155	1,432,089
Explosion-detonation	---	---	---	87,342	---	---	---	---	---	87,342
Fire/violent rupture	---	---	14,948	3,834,259	---	20,000	21,723	1,592,278	36,671	5,446,537
Other	85,772	330,354	115,560	392,093	191,396	2,603,364	1,135,435	967,192	1,528,163	4,293,003
TOTAL.....	16,372,061	63,625,856	14,804,124	45,676,022	6,450,182	42,024,380	9,426,893	39,135,085	47,053,260	190,461,343

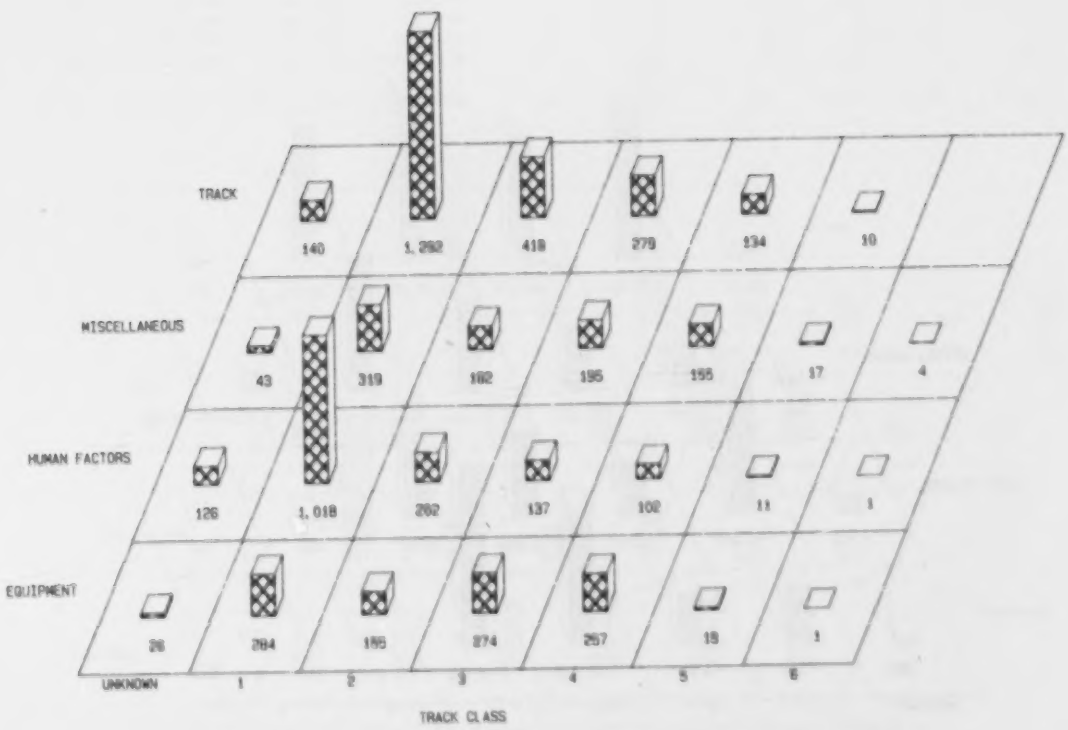


FIGURE 17. ACCIDENT CAUSES BY TRACK CLASS

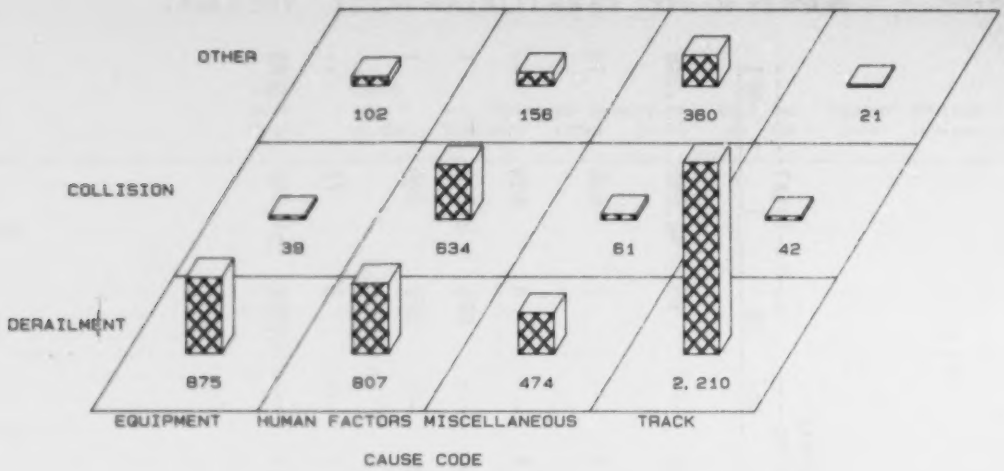


FIGURE 18. ACCIDENT CAUSES BY ACCIDENT TYPE

INJURIES AND FATALITIES BY TYPE OF PERSON

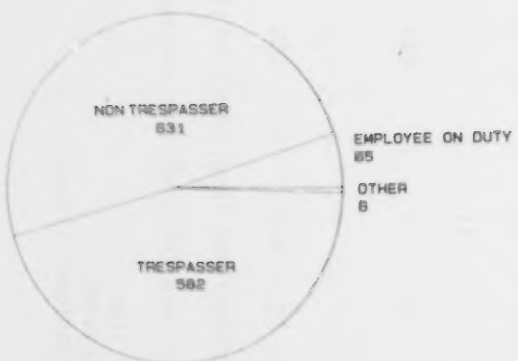


FIGURE 19A.
FATALITIES BY TYPE OF PERSON, 1981

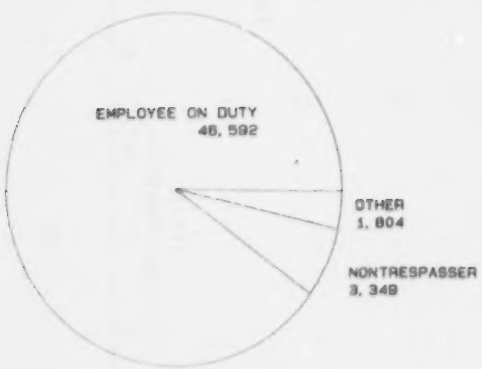


FIGURE 19B.
INJURIES BY TYPE OF PERSON, 1981

TABLE S50. CASUALTIES BY TYPE OF PERSON

Type of Person	Train Accidents[1]			Train Incidents[1]			Non-train Incidents[1]			Rail-highway Crossing			Total		
	K	I	NFI	K	I	NFI	K	I	NFI	K	I	NFI	K	I	NFI
Employee on Duty	9	380	10	33	6,563	157	22	39,519	1,079	1	130	---	65	46,592	1,246
Employee not on Duty	1	2	---	1	23	1	---	605	9	---	5	---	2	635	10
Passenger on Train	---	10	---	4	164	---	---	231	---	---	4	---	4	409	---
Nontrespasser	---	11	---	11	62	---	4	252	1	611	2,952	---	626	3,277	1
Trepasser	3	4	---	446	478	1	17	77	---	116	201	---	582	760	1
Contractor Employee[2]	---	1	---	1	11	---	4	59	---	---	1	---	5	72	---
Total	13	408	10	469	7,301	159	47	40,743	1,089	728	3,293	---	1,284	51,745	1,285

1 Excludes casualties resulting from rail-highway crossing collisions

2 Contractors are included with nontrespassers in other tables

KEY: K - Killed
I - Injured
NFI - Nonfatal illness

TABLE S11. TOTAL FATALITIES BY TYPE OF PERSON

	Total Accidents	Fatal Accidents	....Employees on duty... Trainmen	Other	Total	Empl not on duty	Passengers	Nontrespassers	Trespassers	Total Killed
TRAIN ACCIDENTS										
Collisions	776	2	4	---	4	---	---	---	1	5
Derailments	4,366	4	3	1	4	---	---	---	1	5
Grade crossing	199	30	1	---	1	---	---	38	11	50
Other train accidents	440	2	1	---	1	1	---	---	1	3
TOTAL	5,781	38	9	1	10	1	---	38	14	63
TRAIN INCIDENTS										
Coupling incidents	383	4	4	---	4	---	---	---	---	4
Operating locomotives	787	---	---	---	---	---	---	---	---	---
Operating rail motor car	260	2	---	2	2	---	---	---	---	2
Operating handbrakes	174	---	---	---	---	---	---	---	---	---
Operating switches	52	---	---	---	---	---	---	---	---	---
Striking fixed structures	149	2	1	---	1	---	---	1	---	2
Getting on or off trains	1,707	22	6	---	6	---	2	---	14	22
Highway grade accidents (public)	2,591	522	---	---	---	---	---	532	103	635
Struck or run over	1,005	446	5	6	11	1	---	34	412	458
Flying or falling objects	997	1	---	---	---	---	---	---	1	1
Assaults	212	2	1	---	1	---	---	---	1	2
Miscellaneous	2,168	31	4	4	8	---	2	2	19	31
TOTAL	10,485	1,032	21	12	33	1	4	569	550	1,157
NONTRAIN INCIDENTS										
Coupling incidents	1,341	---	---	---	---	---	---	---	---	---
Operating switches	1,703	---	---	---	---	---	---	---	---	---
Getting on/off locos or cars	1,904	1	1	---	1	---	---	---	--	1
Servicing or maintenance of equip	11,746	3	---	3	3	---	---	---	---	3
Maintenance of way and structures	14,898	12	---	10	10	---	---	2	---	12
Involving freight, baggage, etc	181	---	---	---	---	---	---	---	---	---
Involving windows,doors, etc	769	1	---	1	1	---	---	---	---	1
Involving passenger car doors	19	---	---	---	---	---	---	---	---	---
Stumbling,falling not on car/loco	3,518	4	---	1	1	---	---	1	2	4
Flying/falling objs, burns, etc	1,073	8	---	---	---	---	---	1	7	8
Assaults to persons	286	3	1	2	3	---	---	1	---	4
Miscellaneous	4,319	27	---	3	3	---	---	19	9	31
TOTAL	41,757	59	2	20	22	---	---	24	18	64
GRAND TOTAL	58,023	1,129	32	33	65	2	4	631	582	1,284

TABLE S12. TOTAL NONFATAL CASUALTIES BY TYPE OF PERSON

	Total accidents	Nonfatal accidents	....Employees on duty... Trainmen	Other	Total	Empl not on duty	Passengers	Nontrespassers	Trespassers	Total Non-Fatal Casualties
TRAIN ACCIDENTS										
Collisions	776	78	125	19	144	---	5	1	---	150
Derailments	4,366	121	149	55	204	2	3	9	3	221
Grade crossing	199	85	53	8	61	---	1	73	9	144
Other train accidents	440	23	34	8	42	---	2	2	1	47
TOTAL	5,781	307	361	90	451	2	11	85	13	562
TRAIN INCIDENTS										
Coupling accidents	383	379	365	14	379	---	---	1	---	380
Operating locomotives	787	787	766	41	807	---	---	---	---	807
Operating rail motor car	260	258	18	249	267	1	---	1	---	269
Operating handbrakes	174	174	166	8	174	---	---	---	---	174
Operating switches	52	52	52	---	52	---	---	---	---	52
Striking fixed structures	149	147	144	2	146	---	---	1	---	147
Getting on or off trains	1,707	1,685	1,505	58	1,563	1	30	11	88	1,693
Highway grade accidents (public)	2,591	2,069	40	14	54	2	3	2,638	186	2,883
Struck or run over	1,005	559	60	39	99	6	---	173	354	632
Flying or falling objects	997	996	945	67	1,012	2	13	3	3	1,033
Assaults	212	210	199	5	204	1	9	---	---	214
Miscellaneous	2,168	2,137	1,368	664	2,052	16	112	26	35	2,221
TOTAL	10,485	9,453	5,628	1,161	6,789	29	167	2,854	666	10,505
NONTRAIN INCIDENTS										
Coupling incidents	1,341	1,341	1,157	184	1,341	---	---	1	---	1,342
Operating switches	1,703	1,703	1,565	138	1,703	---	---	---	---	1,703
Getting on/off locos or cars	1,904	1,903	1,311	446	1,757	14	120	8	4	1,903
Servicing or maintenance of equip.	11,746	11,743	39	11,641	11,680	73	---	14	---	11,767
Maintenance of way and structures.	14,898	14,886	26	14,750	14,776	86	---	52	---	14,914
Involving freight, baggage, etc	181	181	15	165	180	---	---	1	---	181
Involving windows,doors, etc	769	768	248	488	736	12	12	8	---	768
Involving passenger car doors	19	19	6	6	12	---	7	---	---	19
Stumbling,falling not on car/loco.	3,518	3,514	1,508	1,501	3,009	246	81	160	20	3,516
Flying/falling objs, burns, etc	1,073	1,065	708	324	1,032	25	5	17	26	1,105
Assaults to persons	286	283	86	175	261	13	4	11	---	289
Miscellaneous	4,319	4,292	1,571	2,540	4,111	145	2	139	32	4,429
TOTAL	41,757	41,698	8,240	32,358	40,598	614	231	411	82	41,936
GRAND TOTAL	58,023	51,458	14,229	33,609	47,838	645	409	3,350	761	53,003

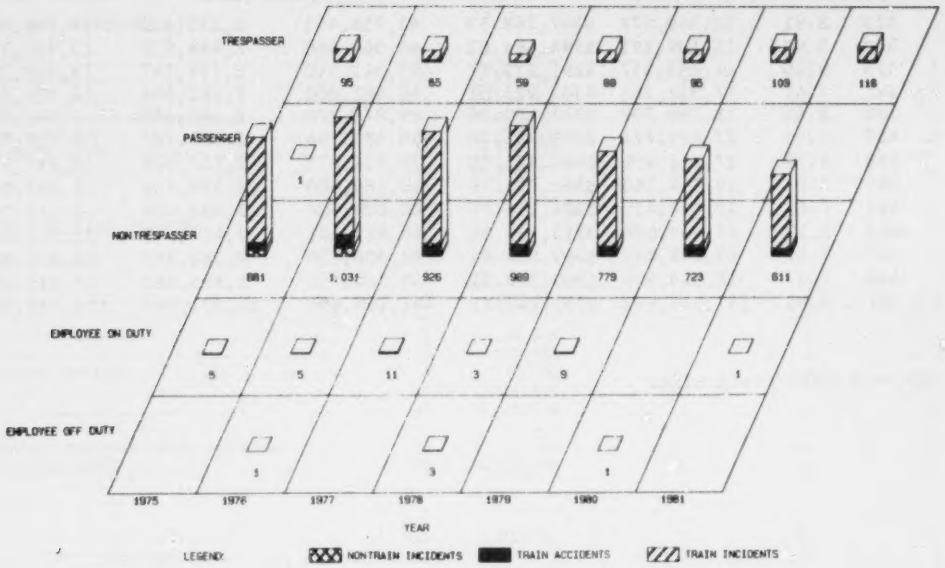


FIGURE 20. FATALITIES AT RAIL-HIGHWAY CROSSINGS BY TYPE OF PERSON, 1975-1981

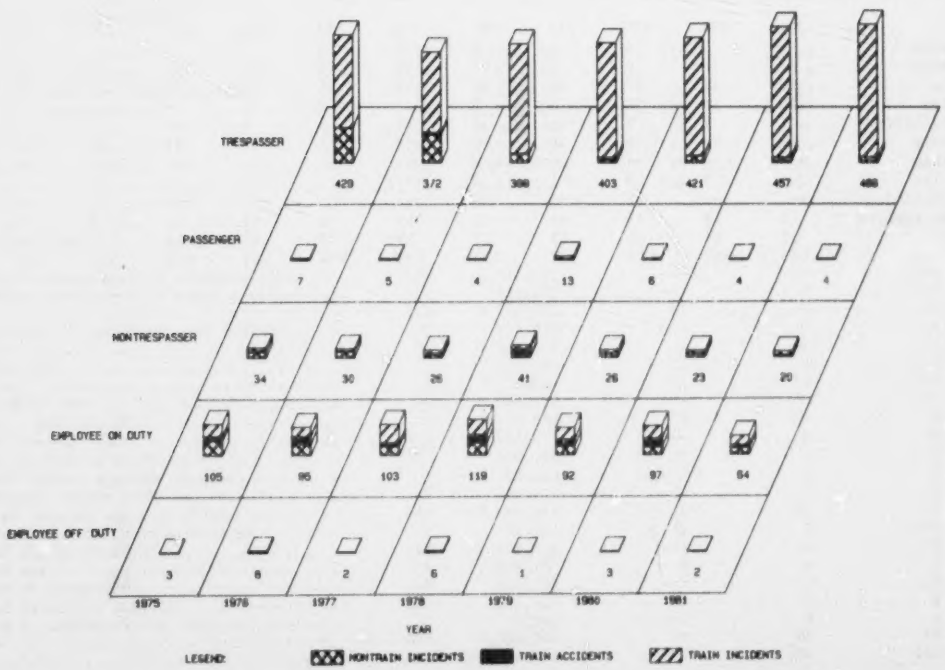


FIGURE 21. FATALITIES NOT AT RAIL-HIGHWAY CROSSINGS, 1975-1981

TABLE S2. TRAIN ACCIDENTS BY MONTH

Month	Accs	Accs Per MTM	Total Damage	Damage Per MTM	Train Miles: Locomotive	Motor	Yard Switching	Total
January	523	8.91	20,369,072	$347,168.53	41,756,433	2,373,412	14,542,175	58,672,020
February	559	9.90	16,509,921	$292,464.63	40,064,480	2,464,232	13,922,170	56,450,882
March	575	9.40	17,833,357	$291,413.77	43,511,510	2,714,747	14,969,390	61,195,647
April	447	7.81	17,332,763	$302,925.01	40,482,000	2,662,584	14,073,251	57,217,835
May	503	8.95	18,743,757	$333,489.14	39,878,270	2,563,879	13,762,701	56,204,850
June	489	8.56	22,209,774	$388,983.20	40,484,764	2,681,987	13,929,958	57,096,709
July	498	8.79	27,226,491	$480,693.70	39,934,873	2,737,609	13,967,921	56,640,403
August	489	8.63	19,754,398	$348,795.78	40,189,680	2,579,466	13,867,069	56,636,215
September	412	7.42	21,339,478	$384,169.77	40,029,424	2,403,484	13,113,766	55,546,674
October	469	8.23	17,955,024	$315,193.96	40,815,101	2,437,938	13,712,053	56,965,092
November	417	7.81	19,697,242	$369,062.64	38,306,726	2,286,347	12,777,987	53,371,060
December	400	7.97	18,543,326	$369,249.21	35,707,733	2,395,362	12,116,029	50,219,124
Total...	5,781	8.55	237,514,603	$351,240.21	481,160,994	30,301,047	164,754,470	676,216,511

NOTE: MTM = million train miles

TABLE S40A. TRAIN ACCIDENTS BY TYPE AND MONTH

Type of Accident	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Derailment	394	406	436	317	387	376	383	370	312	355	317	313	4,366
Head on collision	5	5	4	2	3	4	5	3	3	1	3	5	43
Rear end collision	15	11	10	8	12	16	11	12	12	12	17	5	141
Side collision	29	49	50	56	43	44	44	45	34	36	32	31	493
Raking collision	12	14	14	5	5	4	8	4	4	1	3	3	77
Broken train collision	1	2	2	---	2	4	3	3	---	1	3	1	22
Rail-hwy crossing	18	21	14	20	15	9	17	14	19	23	17	12	199
RR grade crossing	---	---	---	---	---	---	---	---	---	---	---	---	---
Obstruction	4	5	3	1	4	---	---	---	4	4	4	4	37
Explosion-detonation	---	---	1	---	---	---	---	---	---	---	---	---	1
Fire or violent rupture	14	19	15	21	11	13	5	12	11	9	6	7	143
Other	31	27	26	17	21	19	22	22	13	27	15	19	259
TOTAL.....	523	559	575	447	503	489	498	489	412	469	417	400	5,781

3. ACCIDENTS: DETAIL OF 1981 OCCURRENCES

TABLE S41. TRAIN ACCIDENTS AND DAMAGES BY PRINCIPAL CAUSES AND SUBCAUSES

Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
TRACK, ROADBED AND STRUCTURES						
Roadbed defects	111	3,778,706	1	109	1	---
Track geometry defects	1,048	33,579,324	8	1,036	4	---
Rail and joint bar defects	571	29,206,500	6	565	---	---
Frogs, switches and track appliances	507	9,801,786	20	483	4	---
Other way and structure	24	911,908	1	11	12	---
Signal and communication failures	12	2,719,693	6	6	---	---
Subtotal	2,273	79,997,917	42	2,210	21	---
MECHANICAL AND ELECTRICAL FAILURES						
LOCOMOTIVE FAILURE						
Brakes	4	125,070	1	2	1	---
Body	---	---	---	---	---	---
Coupler and draft system	1	14,960	---	1	---	---
Truck components	4	234,955	---	4	---	---
Axles and journal bearings	4	90,140	---	3	1	---
Wheels	6	296,159	---	6	---	---
Locomotives	61	5,545,456	1	8	52	---
Doors	---	---	---	---	---	---
General mechanical and electrical failures	3	22,200	---	---	3	---
Subtotal (Locomotives)	83	6,328,940	2	24	57	---
CAR FAILURE						
Brakes	112	4,632,182	9	81	22	---
Trailer or container on flat car	12	293,042	2	7	3	---
Body	98	4,207,695	1	94	3	---
Coupler and draft system	130	4,940,999	16	108	6	---
Truck components	192	9,787,179	1	191	---	---
Axles and journal bearings	151	15,383,835	---	149	2	---
Wheels	205	13,835,545	3	201	1	---
Doors	15	644,110	2	13	---	---
General mechanical and electrical failures	18	426,619	3	7	8	---
Subtotal (cars)	933	54,151,206	37	851	45	---
TOTAL EQUIPMENT FAILURES	1,016	60,480,146	39	875	102	---
TRAIN OPERATION - HUMAN FACTORS						
Brakes, use of	234	6,589,320	130	80	24	---
Employee physical condition	4	917,800	2	2	---	---
Flagging, fixed, hand and radio signals	62	4,302,193	34	23	5	---
Other rules and instructions	445	11,032,252	298	89	58	---
Speed	158	8,968,280	37	96	25	---
Switches, use of	289	5,521,635	73	201	15	---
Miscellaneous	405	11,143,082	60	316	28	1
Subtotal	1,597	48,474,562	634	807	155	1
MISCELLANEOUS FACTORS						
Collision with highway user at crossing site	197	14,745,312	---	---	---	197
Emergency brake application to avoid accident	10	836,439	---	9	---	1
Vandalism	149	6,702,393	16	78	55	---
Interference with rr operation, not vandals	20	819,242	4	12	4	---
Load shifted	38	2,299,388	2	33	3	---
Load fell from car	15	724,140	2	9	4	---
Overloaded car	6	79,027	---	6	---	---
Improperly loaded car	24	1,076,218	---	24	---	---
Oversized load, misrouted	6	74,584	2	---	4	---
Object on or fouling track	53	2,164,819	---	30	23	---
Equipment on or fouling track	19	570,190	10	2	7	---
Trail/contain tiedown eqp impr applied	5	63,843	---	1	4	---
Overload/improper loaded container etc	4	170,900	---	3	1	---
Interaction of lateral/vertical forces	162	7,647,815	1	161	---	---
Failure to control car spd with hand brk	5	50,191	3	2	---	---
Snow, ice, or mud on track	12	1,151,326	---	10	2	---
Other acts of God	14	1,377,457	3	6	5	---
Fire, not due to vandalism	22	348,732	---	---	22	---
Hump retarder failed to slow car	24	246,912	14	1	9	---
Switch fouled by lading chains, etc	7	78,348	---	6	1	---
Other causes	103	7,334,702	4	81	18	---
Subtotal	895	48,561,978	61	474	162	198
GRAND TOTAL	5,781	237,514,603	776	4,366	440	199

TABLE S5. TRAIN ACCIDENTS RESULTING FROM HUMAN FACTORS BY SPECIFIC CAUSES

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	BRAKES, USE OF						
500	Automatic brake, improper use	26	1,185,246	3	22	1	---
501	Dynamic brake, improper use	3	354,340	---	3	---	---
502	Failure to secure engine (R.R. emp.)	22	673,179	16	4	2	---
503	Failure to secure hnd brk (R.R. emp)	72	1,350,469	47	13	12	---
504	Failure to apply sufficient hand brake	56	1,152,239	35	15	6	---
505	Failure to apply hnd brk on car (emp.)	19	415,250	15	2	2	---
506	Fail. to secure eng/car (Non R.R. emp)	11	399,185	4	6	1	---
507	Independent (eng.) brake, improper use	12	374,047	5	7	---	---
508	Fail. to control spd,hnd brk (R.R.emp)	4	55,000	1	3	---	---
509	Other causes involving use of brakes	9	630,365	4	5	---	---
	SUBTOTAL	234	6,589,320	130	80	24	---
	EMPLOYEE PHYSICAL CONDITION						
510	Impairment due to alcohol or drugs	1	192,500	1	---	---	---
513	Employee falling asleep	3	725,300	1	2	---	---
	SUBTOTAL	4	917,800	2	2	---	---
	FLAGGING, FIXED, HAND AND RADIO SIGNALS						
52A	Block signal, failure to comply	1	4,400	---	---	1	---
52C	Automatic cab signal, failure to compl	1	48,000	1	---	---	---
520	Fixed signal, failure to comply	19	3,207,049	8	10	1	---
521	Flagging, improper or failure to flag	5	468,760	2	2	1	---
522	Flagging signal, failure to comply	---	4,100	---	---	---	---
523	Hand signal, failure to comply	2	21,500	2	---	---	---
524	Hand signal improper	1	4,213	---	---	1	---
525	Hand signal, failure to give/receive	8	94,349	5	3	---	---
526	Radio communicatio, failure to comply	7	163,651	6	1	---	---
527	Radio communication, improper	2	10,175	2	---	---	---
528	Radio comm., failure to give/receive	11	183,246	4	7	---	---
529	Flagging, fixed, hand & radio (other)	5	92,750	4	---	1	---
	SUBTOTAL	62	4,302,193	34	23	5	---
	OTHER RULES AND INSTRUCTIONS						
530	Car(s) shoved out & left out of clear	22	251,518	18	1	3	---
531	Cars left foul	69	1,144,154	45	5	19	---
532	Derail, failure to apply or remove	13	159,712	---	12	1	---
533	Failure to stop train in clear	63	1,408,954	50	7	6	---
534	Hazmat regulations, failure to comply	1	11,400	---	1	---	---
535	Instruction to trn/yard crew improper	22	306,513	18	2	2	---
536	Mtr car/on-trk eqp rules,fail to cmply	29	766,381	21	5	3	---
537	Equip move without authority (RR emp)	10	232,510	7	3	---	---
538	Shoving move, missing man at lead	127	2,212,357	87	28	12	---
539	Shoving movement, fail to control	51	959,513	32	14	5	---
540	Skate, failure to remove or place	6	58,103	3	2	1	---
541	Special op. instr., failure to comply	18	756,117	6	7	5	---
542	Trn ord/timetable auth, fail to comply	11	2,051,293	8	2	1	---
543	Trn ord(radio)err in prep/trans/deliv	1	165,678	1	---	---	---
544	Trn ord(written)err in preparation,etc	2	548,049	2	---	---	---
	SUBTOTAL	445	11,032,252	298	89	58	---

TABLE S5. (CONTINUED)

Cause	Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	SPEED						
550	Coupling speed excessive	61	2,082,918	13	31	17	---
553	Switch movement, excessive speed	22	412,350	10	10	2	---
554	Trn inside yrd limit, excess speed	27	1,055,105	9	17	1	---
555	Trn out yrd limit,clear blk,excess spd	22	3,941,013	---	22	---	---
559	Other Causes involving excessive speed	26	1,476,894	5	16	5	---
	SUBTOTAL	158	8,968,280	37	96	25	---
	SWITCHES, USE OF						
560	Spring switch not clear before reverse	12	106,110	1	11	---	---
561	Switch improperly lined	164	4,093,499	66	84	14	---
562	Switch not latched or locked	18	199,369	3	15	---	---
563	Switch previously run through	95	1,122,657	3	91	1	---
	SUBTOTAL	289	5,521,635	73	201	15	---
	MISCELLANEOUS						
570	Buffing or slack action excessive	181	5,194,608	4	177	---	---
571	Failure to couple	15	230,061	10	3	2	---
572	Lateral drawbar force on curve excess	61	1,588,460	---	61	---	---
573	Moving car,loading ramp not positioned	4	43,100	1	2	1	---
574	Passed couplers	54	404,547	3	43	8	---
575	Retarder, improper manual operation	18	194,543	12	1	5	---
576	Retarder yard skate improperly applied	5	45,918	2	1	2	---
599	Other train operation/human factors	67	3,441,845	28	28	10	1
	SUBTOTAL	405	11,143,082	60	316	28	1
	GRAND TOTAL	1,597	48,474,562	634	807	155	1

TABLE S6. TRAIN ACCIDENTS RESULTING FROM MECHANICAL AND ELECTRICAL FAILURES BY SPECIFIC CAUSE

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other
	BRAKES					
400	Air hose uncoupled or burst	27	695,485	2	25	---
400L	Air hose uncoupled or burst - loco	1	5,720	---	1	---
401	Hydraulic hose uncoupled or burst	1	6,800	---	1	---
402	Broken brake pipe or connections	2	200,300	---	2	---
403	Obstructed brake pipe	1	22,000	1	---	---
404	Other brake component failure, etc	12	201,733	---	10	2
404L	Other brake component failure - loco	1	8,000	1	---	---
405	Brk valve malf. (undesired emergency)	4	330,642	---	4	---
406	Brake valve malfunctio/stuck brake/etc	12	165,841	---	1	11
407	Rigging down or dragging	29	1,339,030	---	26	3
407L	Rigging down or dragging - loco	2	111,350	---	1	1
408	Hand brake/gear broken or defective	7	123,296	2	3	2
409	Hand brk linkage/connections failure	5	59,062	3	1	1
410	Other brake failure(not on locomotive)	12	1,487,993	1	8	3
	SUBTOTAL	116	4,757,252	10	83	23
	TRAILER OR CONTAINER ON FLAT CAR					
411	Broken or defective tiedown equipment	7	125,281	2	3	2
419	Oth trailer/container on flat car fail	5	167,761	---	4	1
	SUBTOTAL	12	293,042	2	7	3
	BODY					
420	Body bolster broken or defective	6	106,252	---	6	---
421	Center sill broken or bent	20	691,864	---	17	3
422	Draft sill broken or bent	10	193,044	---	10	---
423	Center plate broken or defective	15	974,227	---	15	---
424	Center plate disengaged from truck	33	2,063,148	---	33	---
425	Center pin broken or missing	5	40,009	---	5	---
426	Center plate attachment defective	1	4,475	---	1	---
429	Other causes due to body (not loco)	8	134,676	1	7	---
	SUBTOTAL	98	4,207,695	1	94	3
	COUPLER AND DRAFT SYSTEM					
430	Knuckle broken or defective	19	1,332,927	2	14	3
430L	Knuckle broken or defective - loco	1	9,100	---	1	---
431	Coupler mismatch, high/low	23	396,547	3	19	1
431L	Coupler mismatch, high/low - loco	---	5,860	---	---	---
432	Coupler drawhead broken or defective	20	483,857	3	17	---
433	Coupler retainer pin/cross key missing	13	1,014,709	---	13	---
434	Draft gear/mechanism broken/defective	23	501,644	2	20	1
435	Coupler carrier broken or defective	7	172,950	---	6	1
436	Coupler shank broken or defective	5	321,848	---	5	---
439	Other coupler and draft system causes	20	716,517	6	14	---
	SUBTOTAL	131	4,955,959	16	109	6
	TRUCK COMPONENTS					
440	Side bearing clearance improper	85	4,252,004	---	85	---
441	Side bearing(s) broken	9	366,192	---	9	---
442	Side bearing(s) missing	5	152,650	---	5	---
443	Truck bolster broken	12	1,585,379	---	12	---
444	Side frame broken	2	20,700	---	2	---
445	Truck (stiff/improper lateral)	58	2,693,451	1	57	---
445L	Truck (stiff/improper lateral) - loco	3	228,845	---	3	---
446	Defective snubbing	3	78,500	---	3	---
447	Broken/missing/defective springs	2	35,200	---	2	---
449	Other truck component causes	16	603,103	---	16	---
449L	Other truck component causes - loco	1	6,110	---	1	---
	SUBTOTAL	196	10,022,134	1	195	---

TABLE S6. (CONTINUED)

Cause	Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other
	AXLES AND JOURNAL BEARINGS					
450	Broken or bent between wheel seats.....	8	971,957	---	8	---
450L	Broken/bent between wheel seats-loco.....	2	65,100	---	2	---
451	Journal (plain) failure - overheating.....	80	7,442,322	---	79	1
452	Journal (R. B.) failure - overheat.....	49	5,852,870	---	49	---
452L	Journal (R. B.) failure-overheat(loco).....	1	9,840	---	1	---
453	Journal fractured, new cold break.....	7	134,477	---	7	---
453L	Journal fracture, new cold break(loco).....	1	5,200	---	---	1
454	Journal fract., cold brk(prev. O.heat).....	1	10,800	---	1	---
459	Axles and journal bearings (other).....	6	971,409	---	5	1
459L	Axles/journal bearings (other) - loco.....	---	10,000	---	---	---
	SUBTOTAL.....	155	15,473,975	---	152	3
	WHEELS					
460	Broken flange.....	17	1,762,115	---	16	1
460L	Broken flange - locomotive.....	1	246,425	---	1	---
461	Broken rim.....	24	2,172,674	---	24	---
462	Broken plate.....	27	3,487,912	---	27	---
462L	Broken plate - locomotive.....	2	29,871	---	2	---
463	Broken hub.....	4	246,350	---	4	---
464	Worn flange.....	79	2,062,853	2	77	---
464L	Worn flange - locomotive.....	3	19,863	---	3	---
466	Damaged flange or tread, flat.....	10	910,680	---	10	---
467	Loose wheel.....	23	1,426,588	---	23	---
468	Thermal crack, flange or tread.....	8	1,309,234	---	8	---
469	Other causes involving wheels-not loco.....	13	457,139	1	12	---
	SUBTOTAL.....	211	14,131,704	3	207	1
	LOCOMOTIVES					
470L	Running gear failure - locomotive.....	1	10,500	---	1	---
471L	Traction motor failure - locomotive.....	4	74,030	---	1	3
472L	Crank case/air box explosion - loco.....	2	137,342	---	---	2
473L	Oil fire - locomotive.....	6	100,500	---	---	6
474L	Electrically caused fire - locomotive.....	33	1,730,537	---	---	33
475L	Current collector systerm - loco.....	5	349,155	---	1	4
476L	Remote control eqp. inoperative-loco.....	1	18,100	---	1	---
479L	Other causes involving locomotives.....	9	3,125,292	1	4	4
	SUBTOTAL.....	61	5,545,456	1	8	52
	DOORS					
484	Box car door(not plug) attach defect.....	1	5,403	1	---	---
485	Bottom outlet car door open.....	7	135,675	---	7	---
486	Bottom outlet car door attach defect.....	4	451,083	---	4	---
489	Other causes involving doors.....	3	51,949	1	2	---
	SUBTOTAL.....	15	644,110	2	13	---
	GENERAL MECHANICAL AND ELECTRICAL FAILURES					
499	General mech/elect failures-not loco.....	18	426,619	3	7	8
499L	General mech/elect failures - loco.....	3	22,200	---	---	3
	SUBTOTAL.....	21	448,819	3	7	11
	GRAND TOTAL.....	1,016	60,480,146	39	875	102

TABLE S7. TRAIN ACCIDENTS RESULTING FROM DEFECTS IN TRACK, ROADBED, AND STRUCTURES

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other
	ROADBED DEFECTS					
101	Roadbed settled or soft	80	1,952,164	---	79	1
102	Washout/rain/slide/ice,etc. dmg to trk	24	1,736,998	1	23	---
109	Other roadbed defects	7	89,544	---	7	---
	SUBTOTAL	111	3,778,706	1	109	1
	TRACK GEOMETRY DEFECTS					
110	Wide gage (defect/missing crossties)	389	6,204,675	2	387	---
111	Wide gage (def/missing rail fasteners)	60	1,072,212	---	59	1
112	Wide gage (involving gage rods)	13	193,797	---	13	---
113	Wide gage due to worn rail	43	760,246	---	43	---
114	Track alignment irregular	34	1,360,643	2	32	---
115	Track alignment irregular (buckled)	125	9,830,720	---	125	---
116	Track profile improper	8	148,021	---	7	1
117	Superelevation incorrect	31	2,475,985	---	31	---
118	Superelevation runoff improper	2	191,400	---	2	---
119	Cross level irregular at joints	214	5,993,152	3	209	2
120	Cross level irregular not at joints	95	3,987,342	---	95	---
129	Other track geometry defects	34	1,361,131	1	33	---
	SUBTOTAL	1,048	33,579,324	8	1,036	4
	RAIL AND JOINT BAR DEFECTS					
130	Bolt hole crack or break	36	2,065,806	---	36	---
131	Broken base of rail	84	3,682,649	1	83	---
132	Broken weld, field	2	418,174	---	2	---
133	Broken weld, plant	3	927,500	---	3	---
134	Detail fracture fm shelling/head check	12	394,870	---	12	---
135	Engine burn fracture	1	19,700	1	---	---
136	Head/web sep.(outside joint bar limit)	60	3,154,285	1	59	---
137	Head/web sep.(within joint bar limits)	25	1,875,468	---	25	---
138	Horizontal split head	18	310,072	---	18	---
139	Piped rail	5	112,615	---	5	---
140	Rail defect with joint bar repair	2	33,600	---	2	---
141	Transverse/compound fissure	96	4,147,457	1	95	---
142	Vertical split head	74	4,679,633	1	73	---
143	Worn rail	31	668,301	---	31	---
144	Mismatched rail-head contour	12	150,400	---	12	---
145	Joint bar broken, compromise	1	181,300	---	1	---
146	Joint bar broken, insulated	3	1,056,012	---	3	---
147	Joint bar broken, noninsulated	36	2,163,389	---	36	---
148	Joint bolts, broken or missing	12	338,961	1	11	---
149	Other rail and joint bar defects	58	2,826,308	---	58	---
	SUBTOTAL	571	29,206,500	6	565	---

TABLE S7. (CONTINUED)

Cause Of Accident		Total Accidents	Total Damage	Collisions	Derailments	Other
	FROGS, SWITCHES AND TRACK APPLIANCES					
160	Guard rail loose/broken/etc	8	174,911	---	8	---
161	Switch damaged/out of adjustment	97	1,705,233	1	96	---
162	Switch stand failure (hand oper.)	10	77,493	---	10	---
163	Switch connecting/oper. rod fail	9	1,035,321	---	9	---
164	Stock rail worn/broken/disconnect	6	132,659	---	6	---
165	Switch point worn or broken	235	3,552,383	6	229	---
166	Switch rod worn/bent/broken/etc	11	844,817	---	11	---
167	Frog, rigid, worn or broken	13	115,632	---	13	---
168	Frog, spring, worn or broken	3	33,000	---	3	---
169	Frog, self guarded, worn/broken	2	29,900	---	2	---
171	Derail, defective	2	10,400	---	2	---
173	Retarder worn/broken/malfunction	15	190,571	6	5	4
174	Spring/power switch mech. malfunction	12	147,024	1	11	---
175	Retarder yard skate defective	4	19,784	2	2	---
176	Switch out of adjust.(insuf rail anch)	12	281,488	1	11	---
179	Other frog/switches/track appl. causes	68	1,451,170	3	65	---
	SUBTOTAL	507	9,801,786	20	483	4
	OTHER WAY AND STRUCTURES					
180	Bridge misalignment or failure	2	251,527	---	2	---
181	Flangeway clogged	3	54,834	---	3	---
189	Other way and structure causes	19	605,547	1	6	12
	SUBTOTAL	24	911,908	1	11	12
	SIGNAL AND COMMUNICATION FAILURES					
201	Radio communication equipment failure	4	294,000	2	2	---
203	Block signal displayed false proceed	2	2,361,210	I	1	---
209	Signal & communication failure N.O.C	6	64,483	3	3	---
	SUBTOTAL	12	2,719,693	6	6	---
	GRAND TOTAL	2,273	79,997,917	42	2,210	21

TABLE S8. TRAIN ACCIDENTS RESULTING FROM MISCELLANEOUS CAUSES BY SPECIFIC CAUSE

	Cause Of Accident	Total Accidents	Total Damage	Collisions	Derailments	Other	Rail Hwy Crossing
	MISC CAUSES NOT OTHERWISE LISTED						
700	Collision with hwy user at grade xing	197	14,745,312	---	---	---	197
701	Emergency brk appl to avoid accident	10	836,439	---	9	---	1
702	Vandalism	149	6,702,393	16	78	55	---
703	Interference with RR oper.-not vandals	20	819,242	4	12	4	---
704	Load shifted	38	2,299,388	2	33	3	---
705	Load fell from car	15	724,140	2	9	4	---
706	Overloaded car	6	79,027	---	6	---	---
707	Improperly loaded car	24	1,076,218	---	24	---	---
708	Oversized load, misrouted	6	74,584	2	---	4	---
709	Object on or fouling track	53	2,164,819	---	30	23	---
710	Equipment on or fouling track	19	570,190	10	2	7	---
711	Trail/contain tiedown eqp-impr applied	5	63,843	---	1	4	---
712	Overload/improper loaded container etc	4	170,900	---	3	1	---
713	Interaction of lateral/vertical forces	162	7,647,815	1	161	---	---
714	Failure to control spd with hand brake	5	50,191	3	2	---	---
715	Snow, ice, or mud on track	12	1,151,326	---	10	2	---
716	Other acts of God	14	1,377,457	3	6	5	---
717	Fire, not due to vandalism	22	348,732	---	---	22	---
718	Hump retarder failed to slow car	24	246,912	14	1	9	---
719	Switch fouled by lading chains, etc	7	78,348	---	6	1	---
799	Other miscellaneous causes	103	7,334,702	4	81	18	---
	SUBTOTAL	895	48,561,978	61	474	162	198
	GRAND TOTAL	895	48,561,978	61	474	162	198

TABLE S43. DAMAGES TO RAIL EQUIPMENT IN TRAIN ACCIDENTS BY CONSIST TYPE

Type of consist	Collisions Number	Collisions Damage	Derailments Number	Derailments Damage	Other Number	Other Damage	Rail-Hwy X-ing Number	Rail-Hwy X-ing Damage	Total Number	Total Damage
Freight train	292	11,262,185	2,924	123,278,624	128	3,663,730	136	11,847,844	3,480	150,052,383
Passenger train	6	895,861	34	4,396,650	51	3,754,347	23	826,269	114	9,873,127
Mixed train	---	---	2	72,000	1	36,750	1	1,187,741	4	1,296,491
Work train	7	320,200	18	1,036,028	3	51,500	---	---	28	1,407,728
Single car	160	1,760,331	51	458,632	87	981,296	6	43,600	304	3,243,859
Cut of cars	306	2,718,568	112	2,054,438	98	1,461,723	1	17,000	517	6,251,729
Yard/switching	493	4,449,612	1,105	9,412,787	75	865,344	13	107,481	1,686	14,835,224
Light loco(s)	136	2,174,702	67	813,547	21	444,231	10	68,272	234	3,500,752
Unknown	---	---	---	---	1	50	---	---	1	50
Total	1,400	23,581,459	4,313	141,522,706	465	11,258,971	190	14,098,207	6,368	190,461,343

NOTE: "Number" represents the number of consists that sustained damage

4. ACCIDENTS INVOLVING CONSISTS TRANSPORTING HAZARDOUS MATERIALS

The information in this section represents only those accidents involving consists that contained at least one car carrying hazardous materials. The number of accidents, resulting damages, or casualties may or may not be attributable to the presence of these cars in the consists. While this does not represent a complete accounting of all hazardous materials releases, it does provide some insight into the extent of hazardous materials car involvement in train accidents.

TABLE S10. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS

Type Of Accident	Consists Carrying	Cars				Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat	People Evacuated
Derailment	479	34,631	2,326	681	99	13,170	31,083,045
Head on collision	5	102	12	2	1	---	37,050
Rear end collision	13	724	35	9	2	---	338,200
Side collision	54	2,723	214	48	2	5,050	960,879
Raking collision	5	187	17	7	---	---	34,650
Broken train collision	4	446	16	1	---	---	34,400
Rail-hwy crossing	15	956	46	7	---	---	3,975,098
RR grade crossing	---	---	---	---	---	---	---
Obstruction	2	165	12	3	1	---	491,400
Explosion-detonation	---	---	---	---	---	---	---
Fire or violent rupture	4	449	10	---	---	---	37,229
Other	20	814	82	15	4	500	971,296
TOTAL.....	601	41,197	2,770	773	109	18,720	37,983,247

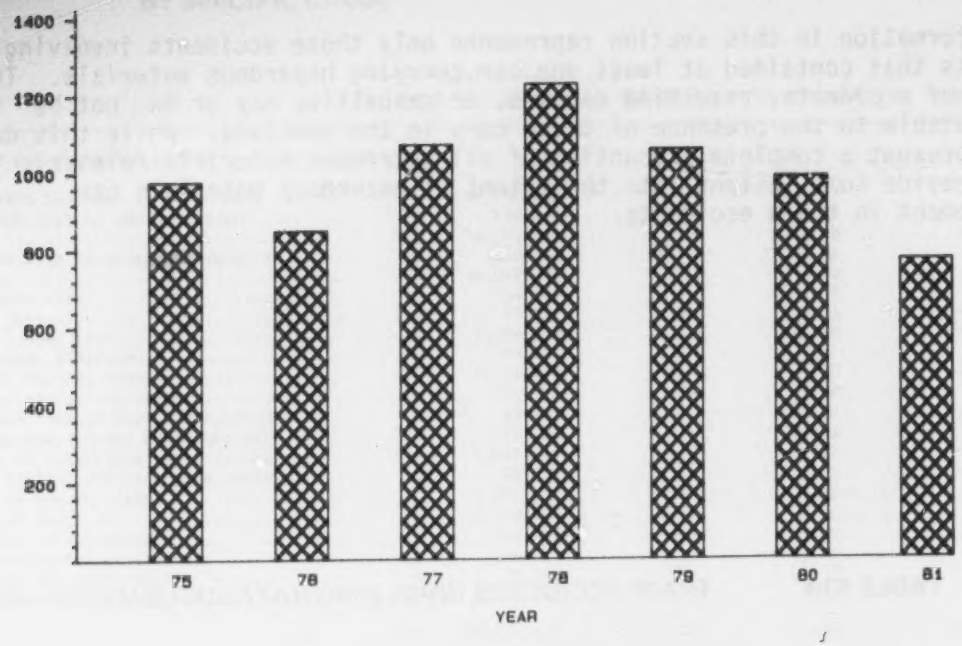


FIGURE 22. TOTAL NUMBER OF HAZARDOUS MATERIAL CARS DAMAGED, 1975-1981

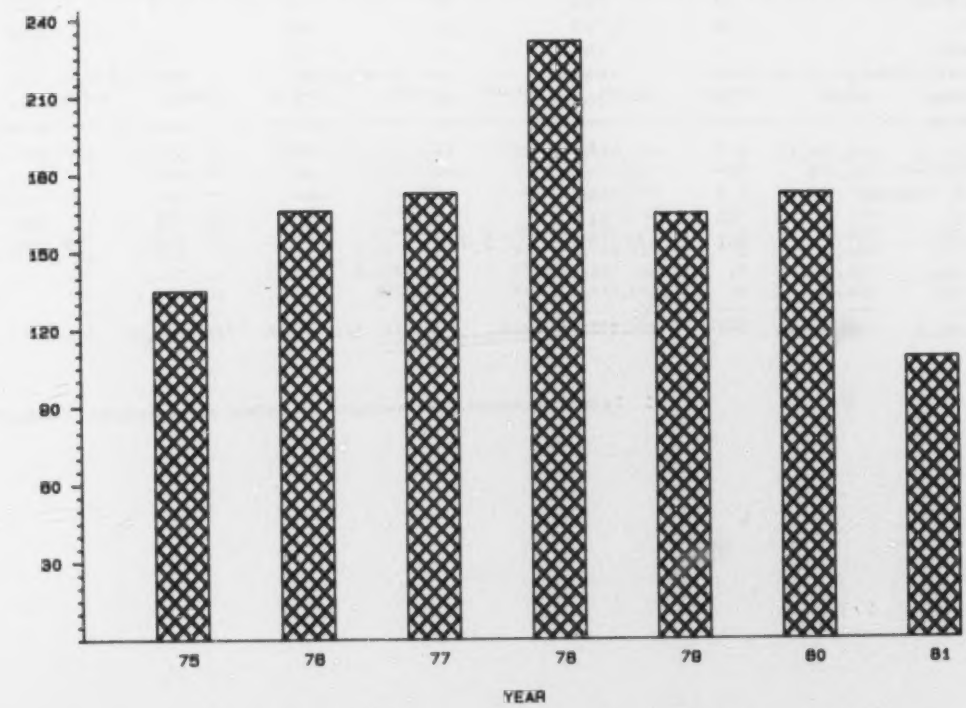


FIGURE 23. TOTAL NUMBER OF CARS RELEASING HAZARDOUS MATERIAL BY YEAR, 1975-1981

TABLE S10A. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY CAUSE

Cause	Consists Carrying	Cars In Consist	Cars Containing Hazmat	Cars Damaged W/Hazmat	Cars Releasing Hazmat	People Evacuated	Damage To Equipment
TRACK, ROADBED AND STRUCTURES							
Roadbed defects	12	563	60	13	---	2,006	651,366
Track geometry defects	111	6,815	478	178	15	273	4,476,826
Rail and joint bar defects	65	4,368	314	115	25	4,819	7,095,930
Frogs, switches and track appliances	44	2,752	248	55	4	25	1,128,427
Other way and structure	---	---	---	---	---	---	---
Signal and communication failures	1	114	1	1	---	---	4,700
Subtotal	233	14,612	1,101	362	44	7,123	13,357,249
MECHANICAL AND ELECTRICAL FAILURES							
Brakes	21	1,980	104	32	7	---	1,029,780
Trailer or container on flat car	---	---	---	---	---	---	---
Body	13	1,136	87	25	3	---	843,963
Coupler and draft system	11	1,033	91	10	1	---	478,925
Truck components	21	1,612	85	25	1	---	1,852,220
Axles and journal bearings	34	2,899	188	53	9	750	2,751,092
Wheels	18	1,554	68	22	6	2,704	2,883,761
Locomotives	---	---	---	---	---	---	---
Doors	---	---	---	---	---	---	---
General mechanical and electrical failures	---	---	---	---	---	---	---
Subtotal	118	10,214	623	167	27	3,454	9,839,741
TRAIN OPERATION - HUMAN FACTORS							
Brakes, use of	28	1,466	88	25	11	---	452,755
Employee physical condition	---	---	---	---	---	---	---
Flagging, fixed, hand and radio signals	10	455	28	8	2	50	123,924
Other rules and instructions	32	1,810	121	32	2	5,000	670,380
Speed	20	1,219	50	18	4	---	2,665,112
Switches, use of	28	1,635	76	19	---	---	319,250
Miscellaneous	54	4,186	298	67	5	400	1,578,038
Subtotal	172	10,771	661	169	24	5,450	5,809,459
MISCELLANEOUS FACTORS							
Collision with highway user at crossing site	14	844	41	6	---	---	3,375,340
Emergency brake application to avoid accident	1	112	5	1	---	---	599,758
Vandalism	13	955	52	12	2	2,043	1,849,096
Interference with rr operation, not vandals	1	137	3	---	---	---	554,909
Load shifted	7	559	26	6	2	---	253,300
Load fell from car	1	80	8	---	---	---	2,000
Overloaded car	---	---	---	---	---	---	---
Improperly loaded car	4	234	45	3	2	---	180,771
Oversized load, misrouted	1	97	12	---	---	---	4,500
Object on or fouling track	4	296	15	6	1	---	497,600
Equipment on or fouling track	4	414	36	---	---	---	18,600
Trail/contain tiedown eqp impr applied	---	---	---	---	---	---	---
Overload/improper loaded container etc	---	---	---	---	---	---	---
Interaction of lateral/vertical forces	13	917	58	20	3	150	514,200
Failure to control car spd with hand brk	---	---	---	---	---	---	---
Snow, ice, or mud on track	1	13	1	1	---	---	4,300
Other acts of God	1	147	1	1	---	---	6,000
Fire, not due to vandalism	1	147	2	---	---	---	8,000
Hump retarder failed to slow car	4	196	10	4	---	---	13,950
Switch fouled by lading chains, etc	1	32	8	2	---	---	4,800
Other causes	7	420	62	13	4	500	1,089,674
Subtotal	78	5,600	385	75	14	2,693	8,976,798
GRAND TOTAL	601	41,197	2,770	773	109	18,720	37,983,247

TABLE S9. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY STATE

State	Consists Carrying	Cars				People Evacuated	Damage To Equipment
		In Consist	Containing Hazmat	Damaged W/Hazmat	Releasing Hazmat		
Alabama	13	825	70	14	4	400	1,011,046
Alaska	1	14	14	1	1	---	18,574
Arizona	11	609	79	27	3	2,500	314,350
Arkansas	14	1,162	48	13	---	---	465,350
California	28	1,820	94	24	2	---	1,865,269
Colorado	1	40	1	1	---	---	21,000
Connecticut	2	71	2	2	---	---	85,000
Delaware	1	44	2	2	---	---	9,000
Dist of Columbia	1	64	1	1	---	---	119,200
Florida	9	798	87	10	2	---	921,231
Georgia	18	1,568	87	19	4	---	1,349,175
Idaho	8	553	12	3	---	---	1,810,099
Illinois	40	3,107	227	34	9	255	2,113,655
Indiana	14	1,019	63	13	---	---	830,450
Iowa	3	145	6	4	---	---	10,875
Kansas	8	581	30	7	1	6	1,150,625
Kentucky	20	1,678	162	30	5	150	449,050
Louisiana	43	2,570	219	71	3	2,093	1,504,590
Maine	4	174	18	10	---	---	147,674
Maryland	6	399	12	8	---	---	174,750
Massachusetts	6	213	17	6	---	---	120,000
Michigan	20	1,399	89	31	4	7,174	510,105
Minnesota	11	649	32	6	1	---	189,924
Mississippi	12	929	50	27	2	43	1,476,008
Missouri	21	1,828	52	12	5	---	2,352,485
Montana	1	53	3	3	---	---	3,800
Nebraska	3	167	6	3	---	---	41,700
Nevada	5	236	11	3	1	30	831,455
New Hampshire	2	58	2	1	---	---	5,100
New Jersey	18	533	51	29	6	500	351,755
New Mexico	7	423	47	6	---	---	114,650
New York	27	1,443	74	35	4	4,150	1,670,344
North Carolina	13	1,474	100	23	7	---	1,375,133
North Dakota	3	145	6	---	---	---	1,814,900
Ohio	27	2,275	94	23	5	---	771,900
Oklahoma	17	1,324	91	18	4	500	1,549,530
Oregon	5	259	3	3	---	---	253,150
Pennsylvania	28	2,117	198	46	3	230	1,034,110
Rhode Island	---	---	---	---	---	---	---
South Carolina	6	410	15	3	---	---	295,066
South Dakota	---	---	---	---	---	---	---
Tennessee	12	1,095	59	8	---	---	2,079,409
Texas	74	3,913	422	147	24	154	2,933,035
Utah	---	---	---	---	---	---	---
Vermont	3	118	3	1	1	---	55,626
Virginia	10	745	37	4	2	---	342,947
Washington	4	310	10	10	1	---	884,150
West Virginia	7	593	22	14	1	35	233,550
Wisconsin	13	1,129	31	15	2	500	1,837,952
Wyoming	1	118	9	2	2	---	484,500
Unknown	---	---	---	---	---	---	---
TOTAL	601	41,197	2,770	773	109	18,720	37,983,247

TABLE R4. TRAIN ACCIDENTS INVOLVING HAZARDOUS MATERIALS BY RAILROAD

Railroad	Consists Carrying	Cars In Consist	Cars Containing Hazmat	Cars Damaged W/Hazmat	Cars Releasing Hazmat	People Evacuated	Damage To Equipment
CLASS I RAILROADS							
Alabama Great Southern Railroad Co.	1	40	5	1	---	---	10,500
Amtrak (National RR Passenger Corp)	---	---	---	---	---	---	---
Atchison, Topeka And Santa Fe Rwy Co.	35	1,595	161	59	8	2,506	4,172,386
Baltimore And Ohio Railroad Co.	24	1,912	77	30	6	4,035	2,043,004
Bessemer And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Boston And Maine Corporation	13	656	31	10	---	---	300,745
Burlington Northern Incorporated	30	2,101	93	49	8	500	5,444,880
Central Of Georgia Railroad Company	6	460	16	8	---	---	1,014,262
Chesapeake And Ohio Railway Company	17	1,153	49	29	5	2,174	690,400
Chicago And Northwestern Transportation Co.	---	---	---	---	---	---	---
Chicago, Milw, St. Paul And Pacific RR Co.	11	620	75	11	3	---	228,381
Cincinnati, New Orleans And Texas Pacific	4	481	7	---	---	---	846,109
Clinchfield Railroad Company	7	405	28	2	---	---	200,800
Colorado And Southern Railway Co.	---	---	---	---	---	---	---
Consolidated Rail Corporation	72	4,216	361	125	13	5,980	2,426,095
Delaware And Hudson Railway	16	970	61	6	---	---	315,400
Denver And Rio Grande Western RR Co.	---	---	---	---	---	---	---
Detroit, Toledo And Ironton RR Co.	1	89	1	1	---	---	29,300
Duluth, Missabe And Iron Range Rwy Co.	1	50	3	1	1	---	15,474
Elgin, Joliet And Eastern Railway Co.	---	---	---	---	---	---	---
Florida East Coast Railway Co.	---	---	---	---	---	---	---
Forth Worth And Denver Railroad Co.	1	65	1	---	---	---	7,750
Grand Truck Western Railroad Co.	5	582	41	13	2	---	95,450
Illinois Central Gulf Railroad Co.	36	2,594	244	72	5	86	3,206,364
Kansas City Southern Railway Co.	22	1,797	97	15	---	---	999,560
Long Island Railroad Company	---	---	---	---	---	---	---
Louisiana And Arkansas Rwy Company	5	298	16	7	---	---	122,950
Louisville And Nashville Railroad Co.	15	1,457	80	22	5	150	880,500
Missouri Pacific Railroad Co.	44	3,506	316	89	19	2,004	2,867,300
Missouri-Kansas-Texas Railroad Co.	4	272	14	1	---	---	74,000
Norfolk And Western Railway Co.	24	2,402	71	9	4	150	1,297,550
Pittsburg And Lake Erie Railroad Co.	---	---	---	---	---	---	---
Seaboard Coast Line Railroad Co.	32	3,092	254	33	12	---	3,467,910
Sooline Railroad Company	22	1,539	58	7	2	500	1,715,382
Southern Pacific Transportation Co.	86	5,064	387	114	8	200	2,355,083
Southern Railway Company	10	542	28	8	---	400	423,390
St. Louis Southwestern Railway Co.	5	578	5	3	---	---	543,850
Union Pacific Railroad Co.	7	475	10	1	---	---	541,099
Western Maryland Railway Company	2	121	2	---	---	---	15,300
Western Pacific Railroad Company	5	351	15	2	1	30	892,955
TOTAL CLASS I RAILROADS	563	39,483	2,607	728	102	18,715	37,244,129
CLASS II RAILROADS							
Autotrain Corporation	---	---	---	---	---	---	---
Atlanta And West Point Railroad Co.	3	315	25	7	2	---	57,525
Bangor And Aroostook Railroad Co.	1	70	9	3	---	---	6,674
Canadian Pacific Lines In Maine	---	---	---	---	---	---	---
Central Vermont Railway Inc.	1	1	1	1	1	---	22,981
Chicago And Illinois Midland Rwy Co.	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR.	---	---	---	---	---	---	---
Colorado And Wyoming Railway Company	---	---	---	---	---	---	---
Detroit And Toledo Shore Line Railroad	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co.	1	94	1	---	---	---	1,200
Georgia Railroad Lessee Organization	---	---	---	---	---	---	---
Georgia Southern And Florida Railway	1	138	2	1	---	---	2,000
Green Bay And Western Railroad	---	---	---	---	---	---	---
Illinois Terminal Railroad	---	---	---	---	---	---	---
Interstate Railroad Company	---	---	---	---	---	---	---
Lake Superior And Ishpeming Railroad Co.	---	---	---	---	---	---	---
Maine Central Railroad Company	---	---	---	---	---	---	---
Michigan Interstate Railroad (Ann Arbor)	---	---	---	---	---	---	---
Monogahela Railway	---	---	---	---	---	---	---
Norfolk Southern Railway Company	---	---	---	---	---	---	---
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Providence and Worcester Railroad Co.	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac RR Co.	3	160	12	2	---	---	52,182
Spokane International Railroad	---	---	---	---	---	---	---
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	---	---	---	---	---	---	---
Toledo, Peoria And Western Railroad Co.	1	78	4	---	---	---	232,475
TOTAL CLASS II RAILROADS	11	856	54	14	3	---	375,037
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS	563	39,483	2,607	728	102	18,715	37,244,129
CLASS II RAILROADS	11	856	54	14	3	---	375,037
CLASS III RAILROADS	27	858	109	31	4	5	364,081
TOTAL ALL RAILROADS	601	41,197	2,770	773	109	18,720	37,983,247

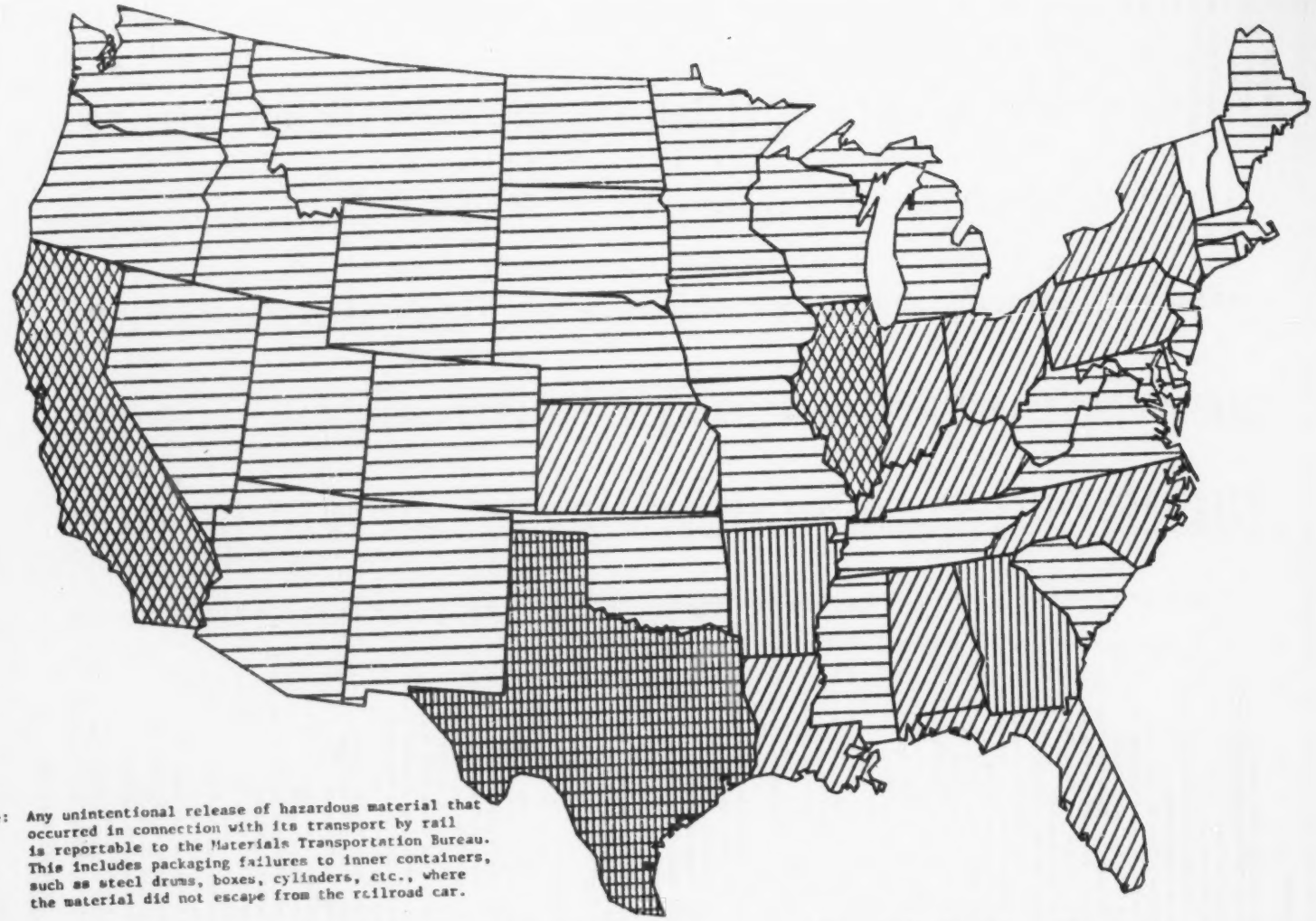

Note: Any unintentional release of hazardous material that occurred in connection with its transport by rail is reportable to the Materials Transportation Bureau. This includes packaging failures to inner containers, such as steel drums, boxes, cylinders, etc., where the material did not escape from the railroad car.
FREQUENCY
0
1 TO 25
26 TO 50
51 TO 75
76 TO 100
126 TO 150

FIGURE 24. ALL HAZARDOUS MATERIAL RELEASES, 1981 - MATERIALS TRANSPORTATION BUREAU

5. ACCIDENTS AND CASUALTIES BY STATE

TABLE S3A. TRAIN ACCIDENTS BY STATE AND TYPE

State	....Collisions....		...Derailments....		.....Other.....		..Rail-Hwy X-ing..		.....Total.....	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama.....	9	79,350	75	2,609,019	3	42,950	8	121,140	95	2,852,459
Alaska.....	---	---	7	427,455	1	5,000	---	---	8	432,455
Arizona.....	3	109,354	37	2,873,417	8	112,843	---	---	48	3,095,614
Arkansas.....	7	160,801	84	3,298,557	4	39,800	6	116,950	101	3,616,108
California.....	42	932,838	206	10,783,402	27	536,137	9	89,879	284	12,342,256
Colorado.....	11	693,344	47	4,310,113	2	23,000	4	407,718	64	5,434,175
Connecticut.....	3	59,850	11	358,419	6	186,591	---	---	20	604,860
Delaware.....	---	---	5	43,475	4	41,900	---	---	9	85,375
Dist of Columbia.	---	---	2	142,625	2	8,500	---	---	4	151,125
Florida.....	11	346,182	41	3,998,951	7	51,527	6	722,403	65	5,119,063
Georgia.....	26	551,474	102	4,226,499	13	137,304	10	2,251,451	151	7,166,728
Idaho.....	9	384,140	16	2,619,820	5	44,031	---	---	30	3,047,991
Illinois.....	56	1,192,781	331	12,228,420	39	544,382	14	1,265,422	440	15,231,005
Indiana.....	22	478,893	118	4,229,794	10	266,134	12	82,642	162	5,057,463
Iowa.....	21	373,980	191	5,407,176	15	163,715	3	40,000	230	5,984,871
Kansas.....	23	303,246	91	4,775,279	7	1,567,260	6	764,010	127	7,409,795
Kentucky.....	14	178,458	94	2,582,368	2	29,000	4	55,438	114	2,845,264
Louisiana.....	19	884,945	121	4,133,171	5	32,200	7	213,999	152	5,264,315
Maine.....	4	35,854	26	860,499	2	20,514	---	---	32	916,867
Maryland.....	11	632,130	39	1,080,301	7	327,000	2	162,461	59	2,201,892
Massachusetts....	3	1,065,257	38	1,175,041	8	468,767	1	20,000	50	2,729,065
Michigan.....	28	494,092	108	2,980,206	11	221,504	4	89,126	151	3,784,928
Minnesota.....	17	289,375	205	6,673,588	15	230,518	4	248,195	241	7,441,676
Mississippi.....	6	72,955	63	4,650,768	1	15,000	4	197,614	74	4,936,337
Missouri.....	33	470,024	170	6,602,568	12	83,746	2	19,810	217	7,176,148
Montana.....	11	355,590	44	4,204,726	4	45,600	---	---	59	4,605,916
Nebraska.....	26	708,727	100	5,627,205	9	136,500	4	34,387	139	6,506,819
Nevada.....	3	37,180	35	2,291,873	3	764,208	---	---	41	3,093,261
New Hampshire....	---	---	14	407,772	---	---	---	---	14	407,772
New Jersey.....	4	96,255	48	693,735	7	134,200	---	---	59	924,190
New Mexico.....	3	209,495	22	1,314,595	3	32,983	1	6,577	29	1,563,650
New York.....	25	436,432	148	4,819,772	31	3,133,035	4	76,084	208	8,465,323
North Carolina...	14	2,144,305	52	2,554,093	3	37,651	5	34,500	74	4,770,549
North Dakota.....	10	105,532	29	1,926,202	3	38,108	2	1,866,800	44	3,936,642
Ohio.....	30	1,039,419	219	6,105,774	18	323,439	13	206,731	280	7,675,363
Oklahoma.....	13	264,400	74	3,062,260	9	84,817	6	1,758,027	102	5,169,504
Oregon.....	13	400,167	50	1,609,395	2	25,675	3	27,000	68	2,062,237
Pennsylvania.....	38	1,027,612	257	9,278,847	43	1,312,970	8	92,350	346	11,711,779
Rhode Island.....	---	---	---	---	1	85,000	1	10,000	2	95,000
South Carolina...	2	15,000	18	683,094	7	94,869	5	1,269,209	32	2,062,172
South Dakota.....	3	19,695	25	627,314	1	12,000	---	---	29	659,009
Tennessee.....	20	1,043,807	78	4,552,283	7	249,237	4	61,330	109	5,906,657
Texas.....	83	3,373,817	440	18,809,069	40	618,154	26	2,748,045	589	25,549,085
Utah.....	5	199,253	28	2,081,026	1	13,250	1	26,994	35	2,320,523
Vermont.....	---	---	12	488,205	1	22,981	---	---	13	511,186
Virginia.....	27	1,084,257	82	3,381,320	6	61,335	3	169,628	118	4,696,540
Washington.....	22	671,415	82	3,371,350	11	272,100	3	31,150	118	4,346,015
West Virginia....	11	996,152	91	4,280,982	---	---	1	22,500	103	5,299,634
Wisconsin.....	18	347,368	146	5,859,518	10	199,825	2	16,500	176	6,423,211
Wyoming.....	17	449,426	44	3,198,605	4	90,700	1	86,000	66	3,824,731
Unknown.....	---	---	---	---	---	---	---	---	---	---
TOTAL.....	776	24,814,627	4,366	184,299,946	440	12,987,960	199	15,412,070	5,781	237,514,603

TABLE S3B. TRAIN ACCIDENTS BY STATE AND CAUSE

State	Track		Equipment		Human Factors		Miscellaneous		Total	
	Number	Damage	Number	Damage	Number	Damage	Number	Damage	Number	Damage
Alabama	33	1,209,395	23	998,251	23	374,992	16	269,821	95	2,852,459
Alaska	3	247,177	4	166,704	1	18,574	---	---	8	432,455
Arizona	12	533,505	14	1,034,398	13	1,369,086	9	158,625	48	3,095,614
Arkansas	39	2,133,292	26	518,571	22	284,895	14	679,350	101	3,616,108
California	64	1,639,273	58	4,951,497	120	3,851,913	42	1,899,573	284	12,342,256
Colorado	15	768,850	13	1,770,351	16	836,544	20	2,058,430	64	5,434,175
Connecticut	5	66,492	5	286,690	9	233,679	1	17,999	20	604,860
Delaware	3	42,500	2	21,200	4	21,675	---	---	9	85,375
Dist of Columbia	1	11,125	2	8,500	1	131,500	---	---	4	151,125
Florida	16	2,930,014	12	777,749	27	634,521	10	776,779	65	5,119,063
Georgia	48	2,077,441	19	1,174,984	58	1,325,264	26	2,589,039	151	7,166,728
Idaho	3	685,411	9	1,665,990	13	497,608	5	198,982	30	3,047,991
Illinois	190	5,851,169	65	3,757,898	121	2,092,311	64	3,529,607	440	15,231,005
Indiana	61	1,532,135	32	1,668,659	41	1,224,466	28	632,203	162	5,057,463
Iowa	131	3,074,962	23	735,338	48	904,120	28	1,270,451	230	5,984,871
Kansas	59	2,926,861	16	760,589	35	757,565	17	2,964,780	127	7,409,795
Kentucky	53	1,576,673	12	300,700	23	439,598	26	528,293	114	2,845,264
Louisiana	86	2,723,993	16	500,262	30	918,608	20	1,121,452	152	5,264,315
Maine	15	595,647	4	34,462	6	191,735	7	95,023	32	916,867
Maryland	14	489,074	10	164,950	19	926,330	16	621,538	59	2,201,892
Massachusetts	19	531,416	5	183,068	11	1,271,239	15	743,342	50	2,729,065
Michigan	46	1,375,549	23	770,940	52	741,704	30	896,735	151	3,784,928
Minnesota	113	2,987,398	36	1,310,444	50	1,623,415	42	1,520,419	241	7,441,676
Mississippi	44	3,144,925	9	437,501	11	369,960	10	983,951	74	4,936,337
Missouri	75	2,905,430	42	1,360,787	71	2,011,266	29	898,665	217	7,176,148
Montana	23	1,597,157	12	2,386,680	13	314,640	11	307,439	59	4,605,916
Nebraska	51	2,121,635	30	3,094,799	43	923,883	15	366,502	139	6,506,819
Nevada	8	305,739	14	580,073	13	1,274,712	6	932,737	41	3,093,261
New Hampshire	9	194,988	---	---	---	---	5	212,784	14	407,772
New Jersey	27	485,375	4	75,600	18	251,315	10	111,900	59	924,190
New Mexico	9	1,073,730	6	162,946	11	291,397	3	35,577	29	1,563,650
New York	86	2,833,340	41	3,900,094	51	1,074,583	30	657,306	208	8,465,323
North Carolina	21	909,048	20	1,378,707	20	1,610,847	13	871,947	74	4,770,549
North Dakota	15	761,300	9	951,802	15	267,632	5	1,955,908	44	3,936,642
Ohio	117	2,296,532	49	1,871,447	63	1,767,537	51	1,739,847	280	7,675,363
Oklahoma	46	2,138,253	12	285,448	31	793,592	13	1,952,211	102	5,169,504
Oregon	19	381,170	17	657,968	23	772,994	9	250,105	68	2,062,237
Pennsylvania	133	3,928,426	67	2,545,433	77	2,740,874	69	2,497,046	346	11,711,779
Rhode Island	---	---	1	85,000	---	---	1	10,000	2	95,000
South Carolina	9	448,637	6	48,913	9	114,942	8	1,449,680	32	2,062,172
South Dakota	19	337,806	4	272,010	4	27,118	2	22,075	29	659,009
Tennessee	39	1,151,028	24	1,514,691	28	1,297,136	18	1,943,802	109	5,906,657
Texas	249	10,815,009	92	5,718,811	189	5,186,628	59	3,828,637	589	25,549,085
Utah	7	104,435	8	314,899	12	375,344	8	1,525,845	35	2,320,523
Vermont	6	304,839	2	54,793	1	22,981	4	128,573	13	511,186
Virginia	53	1,376,113	15	1,043,686	35	1,170,979	15	1,105,762	118	4,696,540
Washington	38	1,016,593	21	1,566,027	36	1,007,165	23	756,230	118	4,346,015
West Virginia	52	1,508,724	18	868,258	17	2,132,102	16	790,550	103	5,299,634
Wisconsin	78	1,522,450	53	3,874,987	27	731,009	18	294,765	176	6,423,211
Wyoming	11	325,863	11	1,866,591	36	1,272,584	8	359,693	66	3,824,731
Unknown	---	---	---	---	---	---	---	---	---	---
TOTAL	2,273	79,997,917	1,016	60,480,146	1,597	48,474,562	895	48,561,978	5,781	237,514,603

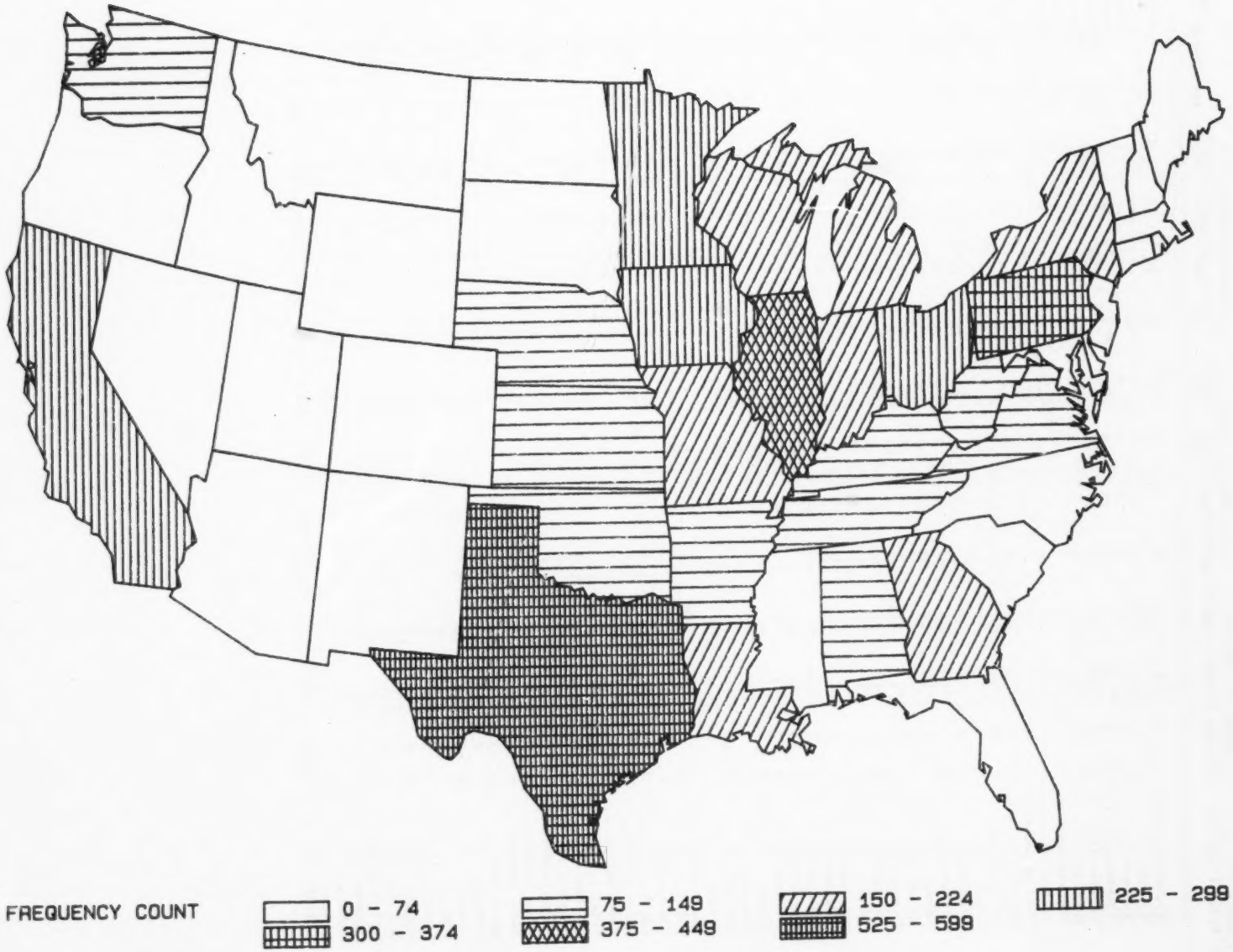


FIGURE 25. TRAIN ACCIDENTS BY STATE, 1981

TABLE S4. TRAIN ACCIDENTS BY STATE AND MONTH

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Alabama	9	14	4	9	4	9	8	10	10	5	9	4	95
Alaska	1	2	---	---	---	1	1	---	2	---	---	1	8
Arizona	4	3	6	1	2	4	5	4	5	4	7	3	48
Arkansas	8	14	9	6	11	5	11	7	8	11	7	4	101
California	25	20	31	29	27	25	25	21	26	14	19	22	284
Colorado	10	5	2	5	5	8	4	5	7	5	5	3	64
Connecticut	3	1	1	1	4	---	1	3	1	3	2	---	20
Delaware	---	1	---	1	3	---	---	1	---	2	1	---	9
Dist of Columbia	1	1	1	---	---	---	---	1	---	---	---	---	4
Florida	7	3	8	9	7	6	4	7	4	2	6	2	65
Georgia	18	18	12	14	17	17	8	8	11	9	12	7	151
Idaho	1	3	4	4	3	2	4	1	4	---	2	2	30
Illinois	35	45	52	34	27	29	32	31	29	48	30	48	440
Indiana	17	20	15	18	11	9	15	16	10	16	9	6	162
Iowa	18	29	21	18	18	15	20	20	16	19	22	14	230
Kansas	11	14	11	8	9	8	11	7	13	12	16	7	127
Kentucky	8	12	10	6	8	10	10	7	8	12	9	14	114
Louisiana	17	17	13	9	12	18	10	13	13	9	10	11	152
Maine	1	1	4	2	4	3	2	4	2	3	3	3	32
Maryland	4	8	3	1	8	5	4	5	4	8	5	4	59
Massachusetts	5	5	2	1	7	2	10	4	6	4	2	2	50
Michigan	17	16	11	16	13	10	15	12	9	14	9	9	151
Minnesota	13	29	20	14	21	24	25	38	11	13	17	16	241
Mississippi	7	5	9	7	4	9	9	4	5	8	2	5	74
Missouri	17	25	16	15	20	21	20	12	15	22	15	19	217
Montana	5	7	9	1	5	9	3	4	5	1	4	6	59
Nebraska	12	8	16	10	15	10	13	12	13	9	12	9	139
Nevada	3	4	7	3	5	4	2	4	3	3	1	2	41
New Hampshire	---	1	2	1	3	2	---	1	---	3	1	---	14
New Jersey	9	4	5	4	6	5	6	6	3	5	2	4	59
New Mexico	---	2	2	1	4	4	5	4	4	2	---	1	29
New York	27	16	25	19	20	17	16	12	15	13	12	16	208
North Carolina	7	7	13	7	3	6	7	5	7	5	2	5	74
North Dakota	4	2	6	---	3	6	5	8	3	2	4	1	44
Ohio	23	23	37	14	38	18	20	19	23	28	17	20	280
Oklahoma	8	13	9	14	7	10	5	9	5	9	7	6	102
Oregon	6	5	10	5	7	8	5	7	1	8	3	3	68
Pennsylvania	35	34	33	24	25	27	26	34	23	28	24	33	346
Rhode Island	---	---	---	---	1	---	---	---	---	1	---	---	2
South Carolina	5	5	1	3	6	2	2	---	3	2	3	---	32
South Dakota	5	4	---	1	2	6	2	3	3	1	1	1	29
Tennessee	7	18	7	6	10	14	9	11	6	6	10	5	109
Texas	46	36	64	56	53	54	57	51	37	44	50	41	589
Utah	5	6	2	4	3	1	1	5	3	2	1	2	35
Vermont	1	---	1	2	2	1	2	2	---	1	1	---	13
Virginia	9	14	13	1	9	8	12	6	12	13	12	9	118
Washington	18	14	7	8	11	8	7	10	6	12	10	7	118
West Virginia	11	11	17	8	3	7	10	10	3	7	6	10	103
Wisconsin	16	11	19	18	13	17	17	19	11	15	9	11	176
Wyoming	4	3	5	9	4	5	12	6	4	6	6	2	66
Unknown	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	523	559	575	447	503	489	498	489	412	469	417	400	5,781

TABLE S18. CASUALTIES BY STATE AND CLASS OF ACCIDENT/INCIDENT

State	Train Accidents			Train Incidents			Nontrain Incidents			Total		
	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness	Killed	Injured	Illness
Alabama	7	15	---	37	195	2	2	493	5	46	703	7
Alaska	---	---	---	---	16	---	---	80	---	---	96	---
Arizona	---	2	---	9	94	2	---	263	9	9	359	11
Arkansas	1	11	---	25	198	9	1	588	23	27	797	32
California	3	23	3	97	656	17	---	2,237	90	100	2,916	110
Colorado	3	3	---	14	138	---	1	487	10	18	628	10
Connecticut	---	2	---	7	42	1	1	247	5	8	291	6
Delaware	---	---	---	6	36	1	---	204	6	6	240	7
Dist of Columbia	---	2	---	---	30	---	---	167	3	---	199	3
Florida	2	26	---	47	297	---	2	553	6	51	876	6
Georgia	3	20	---	32	376	5	5	903	9	40	1,299	14
Idaho	---	1	---	1	75	---	---	336	4	1	412	4
Illinois	3	28	---	85	713	3	7	3,606	60	95	4,347	63
Indiana	7	22	---	51	353	4	3	1,190	19	61	1,565	23
Iowa	1	6	---	15	181	4	1	875	32	17	1,062	36
Kansas	1	7	---	19	167	---	---	793	10	20	967	10
Kentucky	1	5	---	13	170	2	---	1,381	17	14	1,556	19
Louisiana	2	13	---	38	361	4	2	937	29	42	1,311	33
Maine	---	---	---	3	45	1	---	282	3	3	327	4
Maryland	1	20	---	9	168	1	1	780	22	11	968	23
Massachusetts	6	25	---	5	73	---	---	429	8	11	527	8
Michigan	1	12	---	23	441	7	3	1,392	33	27	1,845	40
Minnesota	1	10	---	23	160	1	3	865	16	27	1,035	17
Mississippi	---	5	---	12	225	---	---	446	11	12	676	11
Missouri	1	12	---	17	236	3	2	1,090	26	20	1,338	29
Montana	---	20	---	4	71	1	---	329	7	4	420	8
Nebraska	---	2	---	30	197	3	1	1,081	22	31	1,280	25
Nevada	2	8	---	3	53	1	---	158	---	5	219	1
New Hampshire	---	1	---	---	4	---	---	15	---	---	20	---
New Jersey	---	6	---	29	134	2	3	820	34	32	960	36
New Mexico	---	2	---	9	51	---	---	137	1	9	190	1
New York	1	5	5	46	470	35	1	2,986	197	48	3,461	237
North Carolina	---	14	---	37	207	1	1	371	4	38	592	5
North Dakota	1	4	---	5	41	---	---	181	3	6	226	3
Ohio	4	40	---	64	493	6	---	1,982	35	68	2,515	41
Oklahoma	---	8	---	24	185	1	---	364	6	24	557	7
Oregon	---	7	---	15	161	3	2	624	16	17	792	19
Pennsylvania	1	24	---	41	481	8	2	3,102	108	44	3,607	116
Rhode Island	1	---	---	1	8	---	2	56	1	4	64	1
South Carolina	---	5	---	15	114	---	1	260	4	16	379	4
South Dakota	---	---	---	---	24	---	1	68	1	1	92	1
Tennessee	1	10	---	20	185	1	---	785	15	21	980	16
Texas	6	79	2	110	976	18	5	2,752	98	121	3,807	118
Utah	---	3	---	7	67	---	---	321	2	7	391	2
Vermont	---	---	---	1	24	---	---	55	---	1	79	---
Virginia	1	4	---	30	320	1	4	1,196	20	35	1,520	21
Washington	---	8	---	28	164	2	2	478	9	30	650	11
West Virginia	---	16	---	20	148	3	1	689	16	21	853	19
Wisconsin	---	13	---	28	214	1	3	986	30	31	1,213	31
Wyoming	1	3	---	2	108	5	1	427	4	4	538	9
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	63	552	10	1,157	10,346	159	64	40,847	1,089	1,284	51,745	1,258

TABLE S16. TRAIN ACCIDENT AND TRAIN INCIDENT FATALITIES TO TRESPASSERS AND NON-TRESPASSERS BY STATE

State	Trespassers				Nontrespassers				Total			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama	---	21	---	21	2	20	---	22	2	41	---	43
Alaska	---	---	---	---	---	---	---	---	---	---	---	---
Arizona	---	3	3	6	1	2	---	3	1	5	3	9
Arkansas	---	9	---	9	---	17	---	17	---	26	---	26
California	6	58	5	69	3	19	6	28	9	77	11	97
Colorado	---	4	---	4	---	8	1	9	---	12	1	13
Connecticut	1	6	---	7	---	---	---	---	1	6	---	7
Delaware	---	6	---	6	---	---	---	---	---	6	---	6
Dist of Columbia	---	---	---	---	---	---	---	---	---	---	---	---
Florida	---	30	---	30	5	14	---	19	5	44	---	49
Georgia	1	16	---	17	3	14	---	17	4	30	---	34
Idaho	---	---	---	---	---	1	---	1	---	1	---	1
Illinois	4	24	11	39	2	36	7	45	6	60	18	84
Indiana	2	18	---	20	3	31	1	35	5	49	1	55
Iowa	---	4	---	4	---	10	2	12	---	14	2	16
Kansas	1	1	1	3	2	11	2	15	3	12	3	18
Kentucky	1	4	---	5	---	9	---	9	1	13	---	14
Louisiana	---	9	1	10	3	25	2	30	3	34	3	40
Maine	---	---	---	---	---	2	1	3	---	2	1	3
Maryland	---	6	---	6	---	2	---	2	---	8	---	8
Massachusetts	2	3	---	5	---	3	---	3	2	6	---	8
Michigan	---	4	---	4	---	19	---	19	---	23	---	23
Minnesota	---	8	---	8	1	13	2	16	1	21	2	24
Mississippi	1	1	---	2	---	9	1	10	1	10	1	12
Missouri	---	4	---	4	1	13	---	14	1	17	---	18
Montana	1	1	---	2	---	1	1	2	1	2	1	4
Nebraska	1	6	---	7	1	22	---	23	2	28	---	30
Nevada	---	3	---	3	---	---	---	---	---	3	---	3
New Hampshire	---	---	---	---	---	---	---	---	---	---	---	---
New Jersey	3	20	1	24	---	4	1	5	3	24	2	29
New Mexico	---	3	1	4	1	3	1	5	1	6	2	9
New York	2	38	---	40	---	3	1	4	2	41	1	44
North Carolina	1	22	---	23	1	13	---	14	2	35	---	37
North Dakota	---	3	---	3	---	2	1	3	---	5	1	6
Ohio	1	21	---	22	3	42	---	45	4	63	---	67
Oklahoma	---	6	2	8	2	8	5	15	2	14	7	23
Oregon	2	3	---	5	1	5	---	6	3	8	---	11
Pennsylvania	3	27	2	32	---	6	---	6	3	33	2	38
Rhode Island	---	1	---	1	---	1	---	1	---	2	---	2
South Carolina	1	7	---	8	1	6	---	7	2	13	---	15
South Dakota	---	---	---	---	---	---	---	---	---	---	---	---
Tennessee	---	3	---	3	3	14	---	17	3	17	---	20
Texas	1	42	4	47	2	55	12	69	3	97	16	116
Utah	---	2	1	3	1	3	---	4	1	5	1	7
Vermont	---	1	---	1	---	---	---	---	---	1	---	1
Virginia	---	19	---	19	1	6	---	7	1	25	---	26
Washington	1	11	3	15	1	12	---	13	2	23	3	28
West Virginia	1	10	---	11	---	9	---	9	1	19	---	20
Wisconsin	2	2	---	4	1	13	7	21	3	15	7	25
Wyoming	---	---	---	---	---	2	---	2	---	2	---	2
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	39	490	35	564	45	508	54	607	84	998	89	1,171

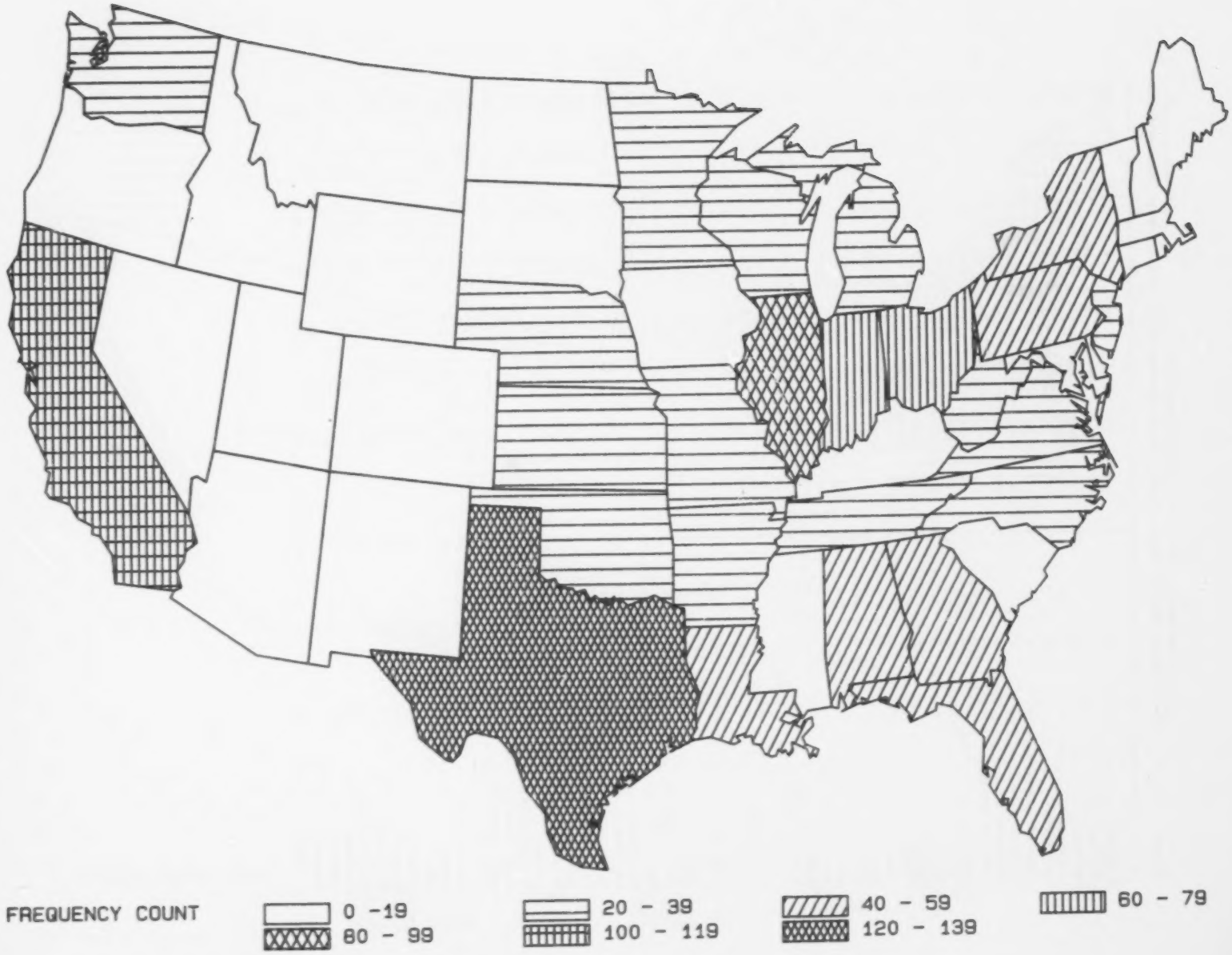


FIGURE 26. FATALITIES BY STATE, 1981

TABLE S17. TRAIN ACCIDENT AND TRAIN INCIDENT INJURIES TO TRESPASSERS AND NON-TRESPASSERS BY STATE

State	Trespassers				Nontrespassers				Total			
	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total	Child	Adult	Unknown	Total
Alabama	---	6	1	7	8	69	16	93	8	75	17	100
Alaska	1	---	---	1	---	1	---	1	1	1	---	2
Arizona	---	14	3	17	---	5	6	11	---	19	9	28
Arkansas	---	5	---	5	8	65	14	87	8	70	14	92
California	4	56	8	68	12	65	37	114	16	121	45	182
Colorado	---	1	---	1	7	24	10	41	7	25	10	42
Connecticut	2	7	---	9	---	2	---	2	2	9	---	11
Delaware	1	1	---	2	---	3	2	5	1	4	2	7
Dist of Columbia	---	---	---	---	---	1	---	1	---	1	---	1
Florida	2	35	---	37	4	53	---	57	6	88	---	94
Georgia	4	18	---	22	9	95	---	104	13	113	---	126
Idaho	---	3	---	3	---	22	---	22	---	25	---	25
Illinois	10	35	14	59	10	116	85	211	20	151	99	270
Indiana	6	20	---	26	14	110	13	137	20	130	13	163
Iowa	---	1	---	1	2	32	26	60	2	33	26	61
Kansas	---	4	---	4	11	32	19	62	11	36	19	66
Kentucky	2	9	---	11	5	23	6	34	7	32	6	45
Louisiana	2	11	1	14	10	114	63	187	12	125	64	201
Maine	---	1	1	2	---	7	---	7	---	8	1	9
Maryland	---	4	1	5	---	17	---	17	---	21	1	22
Massachusetts	4	4	---	8	---	2	---	2	4	6	---	10
Michigan	1	18	2	21	5	107	15	127	6	125	17	148
Minnesota	1	4	1	6	7	38	21	66	8	42	22	72
Mississippi	---	7	---	7	13	47	88	148	13	54	88	155
Missouri	1	7	---	8	1	44	19	64	2	51	19	72
Montana	---	3	---	3	---	3	---	3	---	6	---	6
Nebraska	---	5	1	6	1	37	3	41	1	42	4	47
Nevada	---	1	---	1	---	3	---	3	---	4	---	4
New Hampshire	---	1	---	1	---	---	---	---	---	1	---	1
New Jersey	4	7	1	12	---	8	2	10	4	15	3	22
New Mexico	---	4	1	5	---	6	6	12	---	10	7	17
New York	10	25	---	35	2	15	5	22	12	40	5	57
North Carolina	2	19	---	21	4	76	---	80	6	95	---	101
North Dakota	1	1	---	2	3	6	1	10	4	7	1	12
Ohio	8	27	1	36	16	136	1	153	24	163	2	189
Oklahoma	1	6	2	9	10	65	24	99	11	71	26	108
Oregon	2	10	---	12	1	16	1	18	3	26	1	30
Pennsylvania	10	26	2	38	2	43	11	56	12	69	13	94
Rhode Island	---	---	---	---	---	---	---	---	---	---	---	---
South Carolina	1	8	---	9	3	53	---	56	4	61	---	65
South Dakota	---	---	---	---	1	7	4	12	1	7	4	12
Tennessee	5	18	1	24	6	52	18	76	11	70	19	100
Texas	9	41	6	56	23	257	127	407	32	298	133	463
Utah	---	2	---	2	2	11	---	13	2	13	---	15
Vermont	---	---	---	---	3	8	1	12	3	8	1	12
Virginia	---	23	---	23	7	52	1	60	7	75	1	83
Washington	1	9	3	13	---	24	3	27	1	33	6	40
West Virginia	3	9	---	12	3	35	1	39	6	44	1	51
Wisconsin	---	9	3	12	---	41	22	63	---	50	23	75
Wyoming	---	3	---	3	---	7	---	7	---	10	---	10
Unknown	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	98	528	53	679	213	2,055	671	2,939	311	2,583	724	3,618

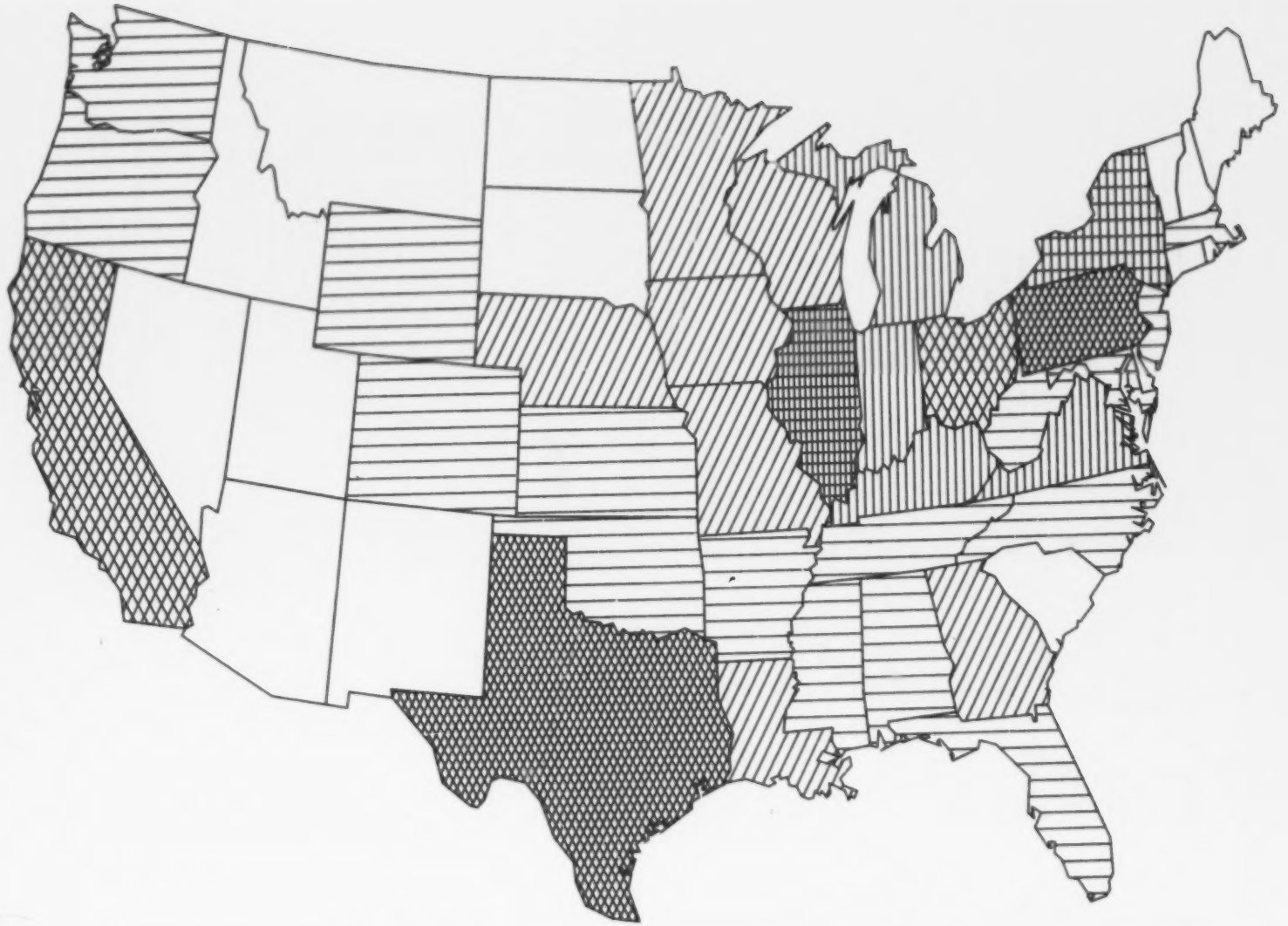


FIGURE 27. INJURIES BY STATE, 1981

6. SUMMARY OF ACCIDENT/INCIDENT DATA BY RAILROAD

TABLE R1. SUMMARY OF TRAIN-MILES OPERATED

Railroad	Train Miles: Locomotive	Motor	Yard Switching	Total
CLASS I RAILROADS				
Alabama Great Southern Railroad Co.	2,669,766	---	660,936	3,330,702
Amtrak (National RR Passenger Corp)	26,453,701	4,305,368	366,035	31,125,104
Atchison, Topeka And Santa Fe Rwy Co.	49,113,020	---	7,907,322	57,020,342
Baltimore And Ohio Railroad Co.	12,359,086	220,150	6,283,770	18,863,006
Bessemer And Lake Erie Railroad Co.	704,100	---	164,490	868,590
Boston And Maine Corporation.	1,568,973	1,363,599	943,422	3,875,994
Burlington Northern Incorporated.	59,317,106	1,686,196	18,172,904	79,176,206
Central Of Georgia Railroad Company.	2,604,578	---	1,206,967	3,811,545
Chesapeake And Ohio Railway Company.	13,322,741	---	5,520,324	18,843,065
Chicago And Northwestern Transportation Co.	13,455,263	2,215,819	5,798,514	21,469,596
Chicago, Milw, St. Paul And Pacific RR Co.	8,184,458	---	2,843,362	11,027,820
Cincinnati, New Orleans And Texas Pacific.	3,603,636	---	878,003	4,481,639
Clinchfield Railroad Company.	1,109,593	---	240,320	1,349,913
Colorado And Southern Railway Co.	2,341,193	---	89,749	2,430,942
Consolidated Rail Corporation.	42,557,601	11,792,517	18,220,422	72,570,540
Delaware And Hudson Railway.	2,187,676	---	272,484	2,460,160
Denver And Rio Grande Western RR Co.	5,546,194	---	1,232,149	6,778,343
Detroit, Toledo And Ironton RR Co.	1,178,571	---	375,218	1,553,789
Duluth, Missabe And Iron Range Rwy Co.	521,955	---	346,998	868,953
Elgin, Joliet And Eastern Railway Co.	474,206	---	1,352,938	1,827,144
Florida East Coast Railway Co.	2,496,035	---	806,490	3,302,525
Forth Worth And Denver Railroad Co.	2,839,528	---	541,392	3,380,920
Grand Truck Western Railroad Co.	2,640,883	---	2,036,689	4,677,572
Illinois Central Gulf Railroad Co.	16,263,010	1,295,091	5,711,464	23,269,565
Kansas City Southern Railway Co.	2,408,457	---	1,238,645	3,647,102
Long Island Railroad Company.	2,254,902	5,427,835	868,698	8,551,435
Louisiana And Arkansas Rwy Company.	1,178,410	---	543,230	1,721,640
Louisville And Nashville Railroad Co.	18,046,104	---	6,493,053	24,539,157
Missouri Pacific Railroad Co.	28,402,430	---	9,421,196	37,823,626
Missouri-Kansas-Texas Railroad Co.	3,395,097	---	1,578,940	4,974,037
Norfolk And Western Railway Co.	15,025,212	---	6,685,422	21,710,634
Pittsburg And Lake Erie Railroad Co.	384,247	---	656,685	1,040,932
Seaboard Coast Line Railroad Co.	18,645,573	---	7,472,105	26,117,678
Sooline Railroad Company.	3,841,277	---	1,492,049	5,333,326
Southern Pacific Transportation Co.	29,568,476	---	10,809,456	40,377,932
Southern Railway Company.	20,228,717	---	6,498,541	26,727,258
St. Louis Southwestern Railway Co.	5,559,383	---	1,266,655	6,826,038
Union Pacific Railroad Co.	34,609,232	---	4,992,666	39,601,898
Western Maryland Railway Company.	872,519	---	333,810	1,206,329
Western Pacific Railroad Company.	3,350,587	---	662,809	4,013,396
TOTAL CLASS I RAILROADS.	461,283,496	28,306,575	142,986,322	632,576,393
CLASS II RAILROADS				
Autotrain Corporation.	71,904	---	11,088	82,992
Atlanta And West Point Railroad Co.	528,885	---	357,106	885,991
Bangor And Aroostook Railroad Co.	478,318	---	130,478	608,796
Canadian Pacific Lines In Maine.	394,098	---	---	394,098
Central Vermont Railway Inc.	361,504	---	41,086	402,590
Chicago And Illinois Midland Rwy Co.	55,580	---	55,839	111,419
Chicago South Shore And South Bend RR.	220,188	1,945,889	---	2,166,077
Colorado And Wyoming Railway Company.	13,264	---	177,504	190,768
Detroit And Toledo Shore Line Railroad.	102,463	---	95,713	198,176
Duluth, Winnipeg And Pacific Rwy Co.	406,292	---	165,116	571,408
Georgia Railroad Lessee Organization.	462,656	---	459,288	921,944
Georgia Southern And Florida Railway.	1,218,175	---	180,730	1,398,905
Green Bay And Western Railroad.	215,712	---	153,017	368,729
Illinois Terminal Railroad.	167,579	---	301,167	468,746
Interstate Railroad Company.	53,923	---	37,499	91,422
Lake Superior And Ishpeming Railroad Co.	43,060	---	93,160	136,220
Maine Central Railroad Company.	785,949	---	403,722	1,189,671
Michigan Interstate Railroad (Ann Arbor).	215,177	---	89,218	304,395
Monogahela Railway.	115,313	---	2,011	117,324
Norfolk Southern Railway Company.	597,615	---	92,006	689,621
Northwestern Pacific Railroad.	233,099	---	33,413	266,512
Providence and Worcester Railroad Co.	157,271	---	31,434	188,705
Richmond, Frederickburg And Potomac RR Co.	1,878,922	---	506,434	2,385,356
Spokane International Railroad.	144,381	---	28,332	172,713
Texas And Northern Railway Company.	47,000	---	---	47,000
Texas, Mexican Railway Company.	139,818	---	169,599	309,417
Toledo, Peoria And Western Railroad Co.	505,735	---	115,190	620,925
TOTAL CLASS II RAILROADS.	9,613,881	1,945,889	3,730,150	15,289,920
RECAPITULATION (INCLUDES CLASS III RAILROADS)				
CLASS I RAILROADS.	461,283,496	28,306,575	142,986,322	632,576,393
CLASS II RAILROADS.	9,613,881	1,945,889	3,730,150	15,289,920
CLASS III RAILROADS.	10,263,617	48,583	18,037,998	28,350,198
TOTAL ALL RAILROADS.	481,160,994	30,301,047	164,754,470	676,216,511

TABLE R3. INVOLVEMENT IN TRAIN ACCIDENTS BY RAILROAD, TYPE, AND CAUSE

	Collisions						Derailments					
		Defects						Defects				
	Human Factor	Equip	Track	Other	Total	Damages ($)	Human Factors	Equip	Track	Other	Total	Damages ($)
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	1	2	1	---	4	38,000	13	8	25	5	51	2,815,800
Baltimore and Ohio Railroad	17	1	6	4	28	1,945,800	32	31	80	28	171	7,665,197
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	2	1	2	---	5	297,656
Boston and Maine Corp.	1	---	---	1	2	1,042,979	6	7	23	15	51	1,257,016
Chesapeake and Ohio Railway	23	3	3	5	34	632,460	11	26	64	18	119	4,899,481
Consolidated Rail Corp.	64	4	6	5	79	1,919,005	109	101	245	44	499	11,301,469
Delaware and Hudson Railway	1	---	---	---	1	23,500	7	4	36	5	52	1,133,191
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	---	8	3	9	2	22	336,631
Elgin, Joliet and Eastern Railway	5	1	---	---	6	61,309	3	6	18	6	33	300,880
Grand Trunk Western Railroad	12	---	1	---	13	335,577	17	11	11	5	44	1,246,733
Long Island Railroad	1	---	---	---	1	28,700	1	1	1	1	4	358,687
Norfolk and Western Railway	18	3	3	5	29	1,107,158	26	29	46	9	110	5,060,797
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	7	4	24	2	37	920,401
Western Maryland Railway	---	1	---	1	2	9,850	2	5	3	3	13	664,150
SUBTOTAL, EASTERN DISTRICT:	143	15	20	21	199	7,144,338	244	237	587	143	1,211	38,258,089
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	---	---	---	---	---	3	3	---	2	8	109,230
Central of Georgia Railroad	2	1	---	---	3	19,700	4	1	13	---	18	1,169,722
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	3	3	1	2	9	1,136,009
Clinchfield Railroad	2	---	---	1	3	279,300	3	3	21	1	28	764,429
Florida East Coast Railway	2	---	---	---	2	222,085	---	---	---	---	---	---
Illinois Central Gulf Railroad	11	4	---	2	17	472,445	17	21	108	15	161	9,595,499
Louisville and Nashville Railroad	16	1	---	---	17	964,384	25	29	73	18	145	5,640,508
Seaboard Coast Line Railroad	19	2	---	5	26	1,308,210	24	31	47	10	112	7,565,007
Southern Railway	19	3	2	---	24	1,260,600	26	20	34	6	86	2,288,550
SUBTOTAL, SOUTHERN DISTRICT:	71	11	2	8	92	4,526,724	105	111	297	54	567	28,268,954
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	37	2	3	1	43	1,557,507	32	32	91	16	171	12,209,098
Burlington Northern Inc.	112	5	5	13	135	3,383,211	94	121	225	61	501	25,548,273
Chicago and Northwestern Trans. Company	40	---	2	2	44	729,360	35	50	251	35	371	9,303,968
Chicago, Milw., St. Paul & Pacific Railroad	11	---	---	1	12	120,365	22	42	87	19	170	5,429,717
Colorado and Southern Railway	4	---	---	---	4	262,620	5	5	10	9	29	3,054,870
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	---	1	---	2	3	148,000
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	5	3	5	5	18	322,664
Fort Worth and Denver Railway	5	1	---	---	6	283,515	---	6	13	3	22	714,984
Kansas City Southern Railway	17	2	---	---	19	455,446	6	12	41	8	67	2,710,712
Louisiana and Arkansas Railway	7	---	---	1	8	542,446	3	2	9	3	17	281,705
Missouri-Kansas-Texas Railroad	15	---	2	1	18	410,720	9	4	43	2	58	1,114,272
Missouri Pacific Railroad	30	2	3	1	36	889,436	47	52	129	18	246	10,930,676
St. Louis Southwestern Railway	8	---	---	---	8	94,902	14	17	39	6	76	2,914,776
Soo Line Railroad	7	---	2	3	12	140,256	9	18	41	6	74	3,680,760
Southern Pacific Trans. Company	47	1	1	3	52	1,392,645	123	97	197	36	453	16,710,536
Union Pacific Railroad	42	---	1	3	46	1,595,595	44	37	18	28	127	8,642,845
Western Pacific Railroad	7	---	---	---	7	60,135	11	8	10	5	34	1,271,261
SUBTOTAL, WESTERN DISTRICT:	389	13	19	29	450	11,918,159	459	507	1,209	262	2,437	104,989,117
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	60	1	2	4	67	1,225,406	62	64	237	47	410	12,783,786
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	574	38	40	57	709	23,589,221	745	811	1,973	427	3,956	171,516,160
Class II & III Railroads	60	1	2	4	67	1,225,406	62	64	237	47	410	12,783,786
TOTAL FOR ALL RAILROADS	634	39	42	61	776	24,814,627	807	875	2,210	474	4,366	184,299,946

TABLE R3. (CONTINUED)

	Other						Total		
	Human Factors	Defects: Equip	Defects: Track	Defects: Other	Defects: Total	Damages ($)	Accidents	Acc/Mil Train Miles	Damages ($)
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak)	1	11	8	22	42	2,808,395	97	3.1	5,662,195
Baltimore and Ohio Railroad	1	1	---	2	4	30,900	203	10.7	9,641,897
Bessemer and Lake Erie Railroad	---	---	---	1	1	4,330	6	6.9	301,986
Boston and Maine Corp.	---	1	---	5	6	161,000	59	15.2	2,460,995
Chesapeake and Ohio Railway	---	---	1	4	5	91,750	158	8.3	5,623,691
Consolidated Rail Corp.	13	22	8	71	114	2,350,380	692	9.5	15,570,854
Delaware and Hudson Railway	3	---	---	1	4	58,650	57	23.1	1,215,341
Detroit, Toledo and Ironton Railroad	---	---	---	1	1	20,000	23	14.8	356,631
Elgin, Joliet and Eastern Railway	---	---	---	1	1	4,034	40	21.8	366,223
Grand Trunk Western Railroad	---	---	---	3	3	26,300	60	12.8	1,608,610
Long Island Railroad	3	1	---	3	7	1,703,414	12	1.4	2,090,801
Norfolk and Western Railway	2	---	---	9	11	226,845	150	6.9	6,394,800
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	37	35.5	920,401
Western Maryland Railway	---	---	---	---	---	---	15	12.4	674,000
SUBTOTAL, EASTERN DISTRICT:	23	36	17	123	199	7,485,998	1,609	8.5	52,888,425
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	---	---	---	1	1	4,500	9	2.7	113,730
Central of Georgia Railroad	---	1	---	4	5	52,300	26	6.8	1,241,722
Cinn., N.O. & Texas Pacific Railway	---	---	---	1	1	4,200	10	2.2	1,140,209
Clinchfield Railroad	2	---	---	1	3	136,922	34	25.1	1,180,651
Florida East Coast Railway	---	---	---	2	2	38,845	4	1.2	260,930
Illinois Central Gulf Railroad	---	4	---	7	11	310,344	189	8.1	10,378,288
Louisville and Nashville Railroad	3	1	---	12	16	161,164	178	7.2	6,766,056
Seaboard Coast Line Railroad	16	2	---	21	39	2,469,690	177	6.7	11,342,907
Southern Railway	1	2	---	17	20	2,693,390	130	4.8	6,242,540
SUBTOTAL, SOUTHERN DISTRICT:	22	10	---	66	98	5,871,355	757	6.4	38,667,033
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	10	7	---	16	33	3,175,117	247	4.3	14,941,722
Burlington Northern Inc.	20	16	2	44	82	4,654,737	718	9.0	33,586,221
Chicago and Northwestern Trans. Company	10	---	1	12	23	346,843	438	20.4	10,380,171
Chicago, Milw., St. Paul & Pacific Railroad	19	4	1	22	46	907,943	228	20.6	6,458,025
Colorado and Southern Railway	---	---	---	1	1	13,100	34	13.9	3,330,590
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	3	0.4	148,000
Duluth, Missabe and Iron Range Railway	1	---	---	---	1	34,983	19	21.8	357,647
Fort Worth and Denver Railway	---	---	---	1	1	15,600	29	8.5	1,014,099
Kansas City Southern Railway	---	---	---	3	3	23,495	89	24.4	3,189,653
Louisiana and Arkansas Railway	---	---	---	2	2	29,800	27	15.6	853,951
Missouri-Kansas-Texas Railroad	3	1	---	4	8	133,950	84	16.8	1,658,942
Missouri Pacific Railroad	3	1	---	7	11	414,845	293	7.7	12,234,957
St. Louis Southwestern Railway	3	3	---	8	14	207,020	98	14.3	3,216,698
Soo Line Railroad	2	2	---	4	8	172,502	94	17.6	3,993,518
Southern Pacific Trans. Company	35	16	2	29	82	3,250,423	587	14.5	21,353,604
Union Pacific Railroad	---	4	---	9	13	490,941	186	4.6	10,729,381
Western Pacific Railroad	1	---	---	1	2	755,500	43	10.7	2,086,896
SUBTOTAL, WESTERN DISTRICT:	107	54	6	163	330	14,626,799	3,217	9.8	131,534,075
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:	8	6	---	22	36	415,878	513	11.7	14,425,070
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	148	96	21	338	603	27,984,152	5,268	8.3	223,089,533
Class II & III Railroads	8	6	---	22	36	415,878	513	11.8	14,425,070
TOTAL FOR ALL RAILROADS	156	102	21	360	639	28,400,030	5,781	8.5	237,514,603

TABLE R7. FATALITIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

	Train Accidents						Train Incidents					
	Empl on Duty	Empl Not on Duty	Pass-engers	Non Tres-passers	Tres-passers	Total	Empl on Duty	Empl Not on Duty	Pass-engers	Non Tres-passers	Tres-passers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	---	---	3	2	5	1	---	1	2	12	16
Baltimore and Ohio Railroad	---	---	---	---	---	---	1	---	---	15	16	32
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	---	---	---
Boston and Maine Corp.	---	---	---	---	1	4	---	---	---	1	2	3
Chesapeake and Ohio Railway	3	---	---	---	---	---	2	1	---	11	9	23
Consolidated Rail Corp.	---	---	---	2	2	4	5	---	---	45	101	151
Delaware and Hudson Railway	---	---	---	---	---	---	---	---	---	1	---	1
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	---	---	---	---	1	---	1
Elgin, Joliet and Eastern Railway	---	---	---	---	---	---	---	---	---	1	---	.
Grand Trunk Western Railroad	---	---	---	---	---	---	---	---	---	9	1	1(
Long Island Railroad	---	---	---	---	1	1	1	---	1	---	22	24
Norfolk and Western Railway	---	---	---	1	---	1	3	---	---	35	21	59
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	1	1	2
Western Maryland Railway	---	---	---	---	---	---	---	---	---	2	---	2
SUBTOTAL, EASTERN DISTRICT:	3	---	---	6	6	15	13	1	2	124	185	325
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---	8	7	15
Central of Georgia Railroad	---	---	---	---	---	---	1	---	---	4	3	8
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	---	---	---	3	---	3
Clinchfield Railroad	---	---	---	---	---	---	---	---	---	---	1	1
Florida East Coast Railway	---	---	---	---	---	---	---	---	---	---	14	14
Illinois Central Gulf Railroad	---	---	---	---	1	1	---	---	---	16	7	23
Louisville and Nashville Railroad	---	---	---	---	---	---	---	---	---	30	13	43
Seaboard Coast Line Railroad	1	---	---	1	---	2	---	---	---	33	41	74
Southern Railway	---	---	---	2	---	2	---	---	---	21	32	53
SUBTOTAL, SOUTHERN DISTRICT:	1	---	---	9	---	10	---	---	---	115	118	234
	2	---	---	12	1	15	1	---	---			
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	---	---	---	---	---	---	3	---	---	62	33	98
Burlington Northern Inc.	1	---	---	4	---	5	5	---	---	69	38	112
Chicago and Northwestern Trans. Company	---	---	---	1	---	1	2	---	---	22	18	42
Chicago, Milw., St. Paul & Pacific Railroad	1	---	---	1	---	2	1	---	---	10	9	20
Colorado and Southern Railway	2	---	---	---	---	2	---	---	---	---	3	3
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	1	---	---	3	4	8
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	---	---	---	---	---	---
Fort Worth and Denver Railway	---	---	---	---	---	---	---	---	---	5	1	6
Kansas City Southern Railway	---	---	---	---	---	---	---	---	---	4	2	6
Louisiana and Arkansas Railway	---	---	---	---	---	---	---	---	---	2	3	5
Missouri-Kansas-Texas Railroad	---	---	---	---	---	---	---	---	---	4	2	6
Missouri Pacific Railroad	---	---	---	---	1	1	---	---	---	53	30	83
St. Louis Southwestern Railway	---	---	---	1	---	1	---	---	---	8	1	9
Soo Line Railroad	---	---	---	---	---	---	---	---	---	17	2	19
Southern Pacific Trans. Company	---	---	---	9	2	11	4	---	1	24	70	98
Union Pacific Railroad	---	---	---	---	---	---	---	---	---	26	16	42
Western Pacific Railroad	1	1	---	---	---	2	---	---	---	1	6	7
SUBTOTAL, WESTERN DISTRICT:	5	1	---	16	3	25	16	---	1	310	238	565
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	---	---	---	4	4	8	3	---	1	20	9	33
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	10	1	---	34	10	55	30	1	3	549	541	1,12
Class II & III Railroads	---	---	---	4	4	8	3	---	1	20	9	3
TOTAL FOR ALL RAILROADS	10	1	---	38	14	63	33	1	4	569	550	1,15

TABLE R7. (CONTINUED)

	Nontrain Incidents						Total					
	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	---	---	2	4	6	1	---	1	7	18	27
Baltimore and Ohio Railroad	---	---	---	---	---	---	1	---	---	15	16	32
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	---	---	---
Boston and Maine Corp.	---	---	---	---	---	---	3	---	---	1	3	7
Chesapeake and Ohio Railway	1	---	---	3	1	5	3	1	---	14	10	28
Consolidated Rail Corp.	---	---	---	1	5	6	5	---	---	48	108	161
Delaware and Hudson Railway	---	---	---	---	---	---	---	---	---	1	---	1
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	---	---	---	---	1	---	1
Elgin, Joliet and Eastern Railway	---	---	---	---	---	---	---	---	---	1	---	1
Grand Trunk Western Railroad	---	---	---	---	---	---	---	---	---	9	1	10
Long Island Railroad	---	---	---	---	---	---	1	---	1	---	23	25
Norfolk and Western Railway	2	---	---	1	---	3	5	---	---	37	21	63
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	---	---	---	1	1	2
Western Maryland Railway	---	---	---	---	---	---	---	---	---	2	---	2
SUBTOTAL, EASTERN DISTRICT:	3	---	---	7	10	20	19	1	2	137	201	360
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	---	---	1	---	1	---	---	---	9	7	16
Central of Georgia Railroad	---	---	---	1	---	1	1	---	---	5	3	9
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	---	---	---	3	---	3
Clinchfield Railroad	---	---	---	---	---	---	---	---	---	---	1	1
Florida East Coast Railway	---	---	---	---	---	---	---	---	---	---	15	15
Illinois Central Gulf Railroad	---	---	---	---	1	1	---	---	---	16	8	24
Louisville and Nashville Railroad	---	---	---	2	---	2	1	---	---	33	13	47
Seaboard Coast Line Railroad	2	---	---	1	2	5	2	---	---	36	43	81
Southern Railway	1	---	---	1	---	2	2	---	---	31	32	65
SUBTOTAL, SOUTHERN DISTRICT:	3	---	---	6	3	12	6	---	---	133	122	261
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	---	---	---	4	---	4	3	---	---	66	33	102
Burlington Northern Inc.	3	---	---	1	3	7	9	---	---	74	41	124
Chicago and Northwestern Trans. Company	3	---	---	1	---	4	5	---	---	24	18	47
Chicago, Milw., St. Paul & Pacific Railroad	1	---	---	---	1	2	3	---	---	11	10	24
Colorado and Southern Railway	---	---	---	---	---	---	2	---	---	---	3	5
Denver and Rio Grande Western Railroad	1	---	---	---	---	1	2	---	---	3	4	9
Duluth, Missabe and Iron Range Railway	---	---	---	---	1	1	---	---	---	---	1	1
Fort Worth and Denver Railway	---	---	---	---	---	---	---	---	---	5	1	6
Kansas City Southern Railway	---	---	---	---	---	---	---	---	---	4	2	6
Louisiana and Arkansas Railway	---	---	---	---	---	---	---	---	---	2	3	5
Missouri-Kansas-Texas Railroad	---	---	---	---	---	---	---	---	---	4	2	6
Missouri Pacific Railroad	1	---	---	2	---	3	1	---	---	55	31	87
St. Louis Southwestern Railway	---	---	---	1	---	1	---	---	---	10	1	11
Soo Line Railroad	1	---	---	---	---	1	1	---	---	17	2	20
Southern Pacific Trans. Company	---	---	---	---	---	---	4	---	1	33	72	110
Union Pacific Railroad	1	---	---	---	---	1	1	---	---	26	16	43
Western Pacific Railroad	---	---	---	---	---	---	1	1	---	1	6	9
SUBTOTAL, WESTERN DISTRICT:	11	---	---	9	5	25	32	1	1	335	246	615
CLASS II & III RAILROADS SUBTOTAL, CLASS II & III:	5	---	---	2	---	7	8	---	1	26	13	48
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	17	---	---	22	18	57	57	2	3	605	569	1,236
Class II & III Railroads	5	---	---	2	---	7	8	---	1	26	13	48
TOTAL FOR ALL RAILROADS	22	---	---	24	18	64	65	2	4	631	582	1,284

TABLE R8. NONFATAL CASUALTIES BY RAILROAD AND TYPE OF ACCIDENT/INCIDENT

	Train Accidents						Train Incidents					
	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	48	---	5	---	1	54	259	---	93	5	9	366
Baltimore and Ohio Railroad	19	---	---	---	---	19	252	1	4	91	19	367
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	3	---	---	1	---	4
Boston and Maine Corp	12	---	4	---	1	17	20	1	4	1	6	32
Chesapeake and Ohio Railway	8	---	---	6	---	14	238	---	5	69	23	335
Consolidated Rail Corp	61	---	1	4	5	71	924	3	11	164	92	1,194
Delaware and Hudson Railway	---	---	---	---	---	---	20	---	---	5	1	26
Detroit, Toledo and Ironton Railroad	---	---	---	2	---	2	20	---	---	12	6	38
Elgin, Joliet and Eastern Railway	4	---	---	---	---	4	31	---	---	10	3	44
Grand Trunk Western Railroad	5	---	---	1	---	6	112	---	1	44	10	167
Long Island Railroad	---	---	---	---	---	---	112	1	26	---	13	152
Norfolk and Western Railway	12	---	---	7	---	19	266	1	1	158	31	457
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	19	---	---	2	---	21
Western Maryland Railway	2	---	---	---	---	2	21	---	---	10	---	31
SUBTOTAL, EASTERN DISTRICT:	171	---	10	20	7	208	2,297	7	145	572	213	3,234
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	---	---	---	---	---	12	---	---	24	2	38
Central of Georgia Railroad	---	---	---	2	---	2	47	---	---	31	5	83
Cinn., N.O. & Texas Pacific Railway	3	---	---	---	---	3	11	---	---	5	3	19
Clinchfield Railroad	---	---	---	---	---	---	14	---	---	3	4	21
Florida East Coast Railway	---	---	---	---	2	2	4	---	---	2	14	20
Illinois Central Gulf Railroad	6	---	---	3	---	9	262	---	1	254	19	536
Louisville and Nashville Railroad	11	1	---	3	---	15	148	---	---	90	31	269
Seaboard Coast Line Railroad	29	---	---	8	---	37	338	7	---	139	41	525
Southern Railway	15	---	---	8	---	23	209	---	---	156	29	394
SUBTOTAL, SOUTHERN DISTRICT:	64	1	---	24	2	91	1,045	7	1	704	148	1,905
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	20	---	---	9	---	29	245	2	---	212	39	498
Burlington Northern Inc	35	---	---	6	---	41	498	5	1	160	44	708
Chicago and Northwestern Trans. Company	15	---	---	2	---	17	149	---	---	120	20	289
Chicago, Milw., St. Paul & Pacific Railroad	9	---	---	4	---	13	119	---	---	21	10	150
Colorado and Southern Railway	3	---	---	---	---	3	23	---	---	6	1	30
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	42	---	1	9	2	54
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	7	---	---	4	---	11
Fort Worth and Denver Railway	---	---	---	---	---	---	15	---	---	7	2	24
Kansas City Southern Railway	17	---	---	1	---	18	56	---	---	35	1	92
Louisiana and Arkansas Railway	4	---	---	1	---	5	37	---	---	42	4	83
Missouri-Kansas-Texas Railroad	5	---	---	2	---	7	76	---	---	59	5	140
Missouri Pacific Railroad	23	---	---	4	---	27	274	2	---	362	25	663
St. Louis Southwestern Railway	5	---	---	1	---	6	72	---	---	22	3	97
Soo Line Railroad	5	---	---	---	---	5	97	---	---	50	10	157
Southern Pacific Trans. Company	46	---	---	3	3	52	639	1	---	167	92	899
Union Pacific Railroad	12	1	---	2	---	15	418	3	---	100	12	533
Western Pacific Railroad	---	---	---	---	---	---	57	---	---	8	4	69
SUBTOTAL, WESTERN DISTRICT:	199	1	---	35	3	238	2,824	13	2	1,384	274	4,497
CLASS II & III RAILROADS SUBTOTAL, CLASS II & III:	17	---	1	6	1	25	623	2	19	194	31	869
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	434	2	10	79	12	537	6,166	27	148	2,660	635	9,636
Class II & III Railroads	17	---	1	6	1	25	623	2	19	194	31	869
TOTAL FOR ALL RAILROADS	451	2	11	85	13	562	6,789	29	167	2,854	666	10,505

TABLE R8. (CONTINUED)

	Nontrain Incidents						Total					
	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total	Empl on Duty	Empl Not on Duty	Passengers	Non Trespassers	Trespassers	Total
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	1,798	35	61	61	13	1,968	2,105	35	159	66	23	2,388
Baltimore and Ohio Railroad	1,355	29	2	6	1	1,393	1,626	30	6	97	20	1,779
Bessemer and Lake Erie Railroad	51	---	---	1	1	53	54	---	---	2	1	57
Boston and Maine Corp	158	2	14	---	---	174	190	3	22	1	7	223
Chesapeake and Ohio Railway	1,331	25	3	4	2	1,365	1,577	25	8	79	25	1,714
Consolidated Rail Corp	6,015	98	14	42	16	6,185	7,000	101	26	210	113	7,450
Delaware and Hudson Railway	131	---	---	---	---	131	151	---	---	5	1	157
Detroit, Toledo and Ironton Railroad	136	1	---	---	---	137	156	1	---	14	6	177
Elgin, Joliet and Eastern Railway	119	6	---	---	---	125	154	6	---	10	3	173
Grand Trunk Western Railroad	371	6	4	---	3	384	488	6	5	45	13	557
Long Island Railroad	1,251	12	48	37	8	1,356	1,363	13	74	37	21	1,508
Norfolk and Western Railway	1,923	45	1	19	1	1,989	2,201	46	2	184	32	2,465
Pittsburg and Lake Erie Railroad	212	---	---	---	---	212	231	---	---	2	---	233
Western Maryland Railway	104	4	---	5	---	113	127	4	---	15	---	146
SUBTOTAL, EASTERN DISTRICT:	14,955	263	147	175	45	15,585	17,423	270	302	767	265	19,027
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	33	1	---	4	---	38	45	1	---	28	2	76
Central of Georgia Railroad	97	1	---	3	---	101	144	1	---	36	5	186
Cinn., N.O. & Texas Pacific Railway	48	3	---	4	---	55	62	3	---	9	3	77
Clinchfield Railroad	41	---	---	---	---	41	55	---	---	3	4	62
Florida East Coast Railway	23	---	---	---	---	23	27	---	---	2	16	45
Illinois Central Gulf Railroad	1,848	16	29	11	2	1,906	2,116	16	30	268	21	2,451
Louisville and Nashville Railroad	1,184	9	---	3	1	1,197	1,343	10	---	96	32	1,481
Seaboard Coast Line Railroad	1,248	15	---	6	3	1,272	1,615	22	---	153	44	1,834
Southern Railway	970	22	---	17	---	1,009	1,194	22	---	181	29	1,426
SUBTOTAL, SOUTHERN DISTRICT:	5,492	67	29	48	6	5,642	6,601	75	30	776	156	7,638
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	1,535	25	---	11	---	1,571	1,800	27	---	232	39	2,098
Burlington Northern Inc	3,331	77	3	34	8	3,453	3,864	82	4	200	52	4,202
Chicago and Northwestern Trans. Company	1,525	12	31	10	3	1,581	1,689	12	31	132	23	1,887
Chicago, Milw., St. Paul & Pacific Railroad	971	9	2	1	1	984	1,099	9	2	26	11	1,147
Colorado and Southern Railway	72	---	---	---	---	72	98	---	---	6	1	105
Denver and Rio Grande Western Railroad	141	3	---	1	---	145	183	3	1	10	2	199
Duluth, Missabe and Iron Range Railway	105	---	---	36	---	141	112	---	---	40	---	152
Fort Worth and Denver Railway	73	2	---	---	---	75	88	2	---	7	2	99
Kansas City Southern Railway	322	1	---	---	---	323	395	1	---	36	1	433
Louisiana and Arkansas Railway	97	---	---	3	---	100	138	---	---	46	4	188
Missouri-Kansas-Texas Railroad	323	---	---	8	1	332	404	---	---	69	6	479
Missouri Pacific Railroad	1,446	14	---	11	1	1,472	1,743	16	---	377	26	2,162
St. Louis Southwestern Railway	517	4	---	11	1	533	594	4	---	34	4	636
Soo Line Railroad	425	4	---	4	2	435	527	4	---	54	12	597
Southern Pacific Trans. Company	3,014	47	---	8	11	3,080	3,699	48	---	178	106	4,031
Union Pacific Railroad	2,303	55	---	3	---	2,361	2,733	59	---	105	12	2,909
Western Pacific Railroad	221	3	---	1	---	225	278	3	---	9	4	294
SUBTOTAL, WESTERN DISTRICT:	16,421	256	36	142	28	16,883	19,444	270	38	1,561	303	21,618
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	3,730	28	19	46	3	3,826	4,370	30	39	246	35	4,720
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	36,868	586	212	365	79	38,110	43,468	615	370	3,104	726	48,283
Class II & III Railroads	3,730	28	19	46	3	3,826	4,370	30	39	246	35	4,720
TOTAL FOR ALL RAILROADS	40,598	614	231	411	82	41,936	47,838	645	409	3,350	761	53,003

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TABLE R12. INJURIES TO EMPLOYEES ON DUTY BY TYPE OF INJURY AND RAILROAD

	Amputations						Fractures						
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Face or Head	Other	Tota
CLASS I RAILROADS													
EASTERN DISTRICT													
National Railroad Passenger Corp. (Amtrak).	---	1	---	---	---	1	23	53	21	23	2	11	1
Baltimore and Ohio Railroad	1	4	1	1	---	7	14	37	29	22	6	16	1
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	---	1	---	---	---	---	
Boston and Maine Corp.	---	---	1	---	---	1	11	13	4	2	1	3	
Chesapeake and Ohio Railway	---	7	1	1	---	9	19	46	28	17	2	15	1
Consolidated Rail Corp.	1	11	1	---	---	13	88	217	104	121	26	73	6
Delaware and Hudson Railway	---	---	---	---	---	---	1	2	5	3	---	3	
Detroit, Toledo and Ironton Railroad	---	1	---	---	---	1	1	3	2	---	---	---	
Elgin, Joliet and Eastern Railway	---	1	---	---	---	1	---	3	3	2	---	1	
Grand Trunk Western Railroad	---	4	---	---	---	4	4	17	4	5	2	6	
Long Island Railroad	---	1	---	---	---	1	8	17	15	15	2	3	
Norfolk and Western Railway	---	11	1	2	---	14	29	80	40	32	4	28	2
Pittsburg and Lake Erie Railroad	---	1	---	---	1	2	1	4	3	2	1	1	
Western Maryland Railway	---	1	---	---	---	1	2	4	3	1	---	1	
SUBTOTAL, EASTERN DISTRICT:	2	43	5	4	1	55	201	497	261	245	46	161	1,4
SOUTHERN DISTRICT													
Alabama Great Southern Railroad	---	---	---	---	---	---	2	---	1	---	---	1	
Central of Georgia Railroad	---	1	---	---	---	1	1	5	4	1	1	3	
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	2	---	1	---	---	1	
Clinchfield Railroad	---	---	---	---	---	---	---	2	---	---	---	3	
Florida East Coast Railway	---	---	---	---	---	---	2	3	1	2	---	---	
Illinois Central Gulf Railroad	---	3	3	---	---	6	30	63	38	25	10	15	1
Louisville and Nashville Railroad	---	5	---	---	---	5	16	41	30	20	3	10	1
Seaboard Coast Line Railroad	---	3	---	1	---	4	12	51	34	16	4	17	1
Southern Railway	1	4	1	---	---	6	26	19	16	10	3	14	
SUBTOTAL, SOUTHERN DISTRICT:	1	16	4	1	---	22	91	184	125	74	21	64	5
WESTERN DISTRICT													
Atchison, Topeka and Santa Fe Railway	---	8	2	1	---	11	40	77	37	20	11	13	1
Burlington Northern Inc.	1	10	3	1	---	15	52	123	73	44	17	37	3
Chicago and Northwestern Trans. Company	---	---	---	2	---	2	15	41	29	16	6	14	1
Chicago, Milw., St. Paul & Pacific Railroad	---	5	---	1	---	6	17	34	21	9	3	12	
Colorado and Southern Railway	1	---	---	---	---	1	3	4	5	---	---	1	
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	3	12	8	1	1	1	
Duluth, Missabe and Iron Range Railway	---	1	---	---	---	1	1	2	1	---	---	1	
Fort Worth and Denver Railway	---	---	---	---	---	---	1	1	4	2	---	---	
Kansas City Southern Railway	---	---	---	---	---	---	7	4	7	4	---	7	
Louisiana and Arkansas Railway	---	1	---	---	---	1	---	1	2	4	1	3	
Missouri-Kansas-Texas Railroad	---	3	---	---	---	3	4	12	12	4	2	9	
Missouri Pacific Railroad	1	5	3	---	---	9	25	32	41	15	7	22	1
St. Louis Southwestern Railway	---	2	---	---	---	2	8	14	10	2	3	1	
Soo Line Railroad	2	2	1	---	---	5	10	14	15	2	1	4	
Southern Pacific Trans. Company	1	3	2	---	---	6	55	82	47	25	7	25	2
Union Pacific Railroad	1	2	2	---	---	5	28	102	39	33	5	36	2
Western Pacific Railroad	---	3	---	---	---	3	4	7	4	2	1	2	
SUBTOTAL, WESTERN DISTRICT:	7	45	13	5	---	70	273	562	355	183	65	188	1,6
CLASS II & III RAILROADS													
SUBTOTAL, CLASS II & III:	1	10	5	1	1	18	55	86	71	31	11	28	2
RECAPITULATION ALL DISTRICTS													
Class I RAILROADS	10	104	22	10	1	147	565	1,243	741	502	132	413	3,5
Class II & III Railroads	1	10	5	1	1	18	55	86	71	31	11	28	2
TOTAL FOR ALL RAILROADS	11	114	27	11	2	165	620	1,329	812	533	143	441	3,8

TABLE R12. (CONTINUED)

	Other Injuries										
	Bruise	Sprain or Strain	Cut	Elec Shock or Burn	Other Burn	Dislo-cation	Cinder In Eye	Other	Total	Total In-juries	Total Fatal-ities
CLASS I RAILROADS											
EASTERN DISTRICT											
National Railroad Passenger Corp. (Amtrak).	525	780	352	14	57	5	102	84	1,919	2,053	1
Baltimore and Ohio Railroad	339	633	253	5	22	12	127	59	1,450	1,581	1
Bessemer and Lake Erie Railroad	6	28	5	---	---	---	6	4	49	50	---
Boston and Maine Corp.	19	70	28	2	1	---	15	17	152	187	3
Chesapeake and Ohio Railway	294	662	242	5	40	4	99	57	1,403	1,539	3
Consolidated Rail Corp.	1,327	2,747	891	31	124	32	596	358	6,106	6,748	5
Delaware and Hudson Railway	33	75	11	---	5	---	6	1	131	145	---
Detroit, Toledo and Ironton Railroad	31	61	18	---	4	2	18	12	146	153	---
Elgin, Joliet and Eastern Railway	29	44	25	---	17	---	18	11	144	154	---
Grand Trunk Western Railroad	85	210	39	2	7	1	55	41	440	482	---
Long Island Railroad	373	476	108	23	18	6	98	71	1,173	1,234	1
Norfolk and Western Railway	387	882	344	2	55	12	161	105	1,948	2,175	5
Pittsburg and Lake Erie Railroad	41	98	31	1	6	---	16	19	212	226	---
Western Maryland Railway	23	45	18	---	4	---	14	4	108	120	---
SUBTOTAL, EASTERN DISTRICT:	3,512	6,811	2,365	85	360	74	1,331	843	15,381	16,847	19
SOUTHERN DISTRICT											
Alabama Great Southern Railroad	7	15	19	---	---	---	---	---	41	45	---
Central of Georgia Railroad	33	48	40	2	2	---	---	1	126	142	1
Cinn., N.O. & Texas Pacific Railway	13	28	13	1	1	---	---	2	58	62	---
Clinchfield Railroad	11	25	6	---	---	---	1	5	48	53	---
Florida East Coast Railway	3	7	6	---	---	---	2	1	19	27	---
Illinois Central Gulf Railroad	437	849	256	5	32	9	175	123	1,886	2,073	---
Louisville and Nashville Railroad	258	522	240	1	25	10	94	58	1,208	1,333	1
Seaboard Coast Line Railroad	346	607	253	4	35	9	154	54	1,462	1,600	2
Southern Railway	194	515	337	14	17	5	1	7	1,090	1,184	2
SUBTOTAL, SOUTHERN DISTRICT:	1,302	2,616	1,170	27	112	33	427	251	5,938	6,519	6
WESTERN DISTRICT											
Atchison, Topeka and Santa Fe Railway	306	651	316	13	30	17	127	118	1,578	1,787	3
Burlington Northern Inc.	567	1,656	631	2	50	29	262	210	3,407	3,768	9
Chicago and Northwestern Trans. Company	305	628	292	3	27	6	152	104	1,517	1,640	5
Chicago, Milw., St. Paul & Pacific Railroad	177	531	136	5	20	5	43	49	966	1,068	3
Colorado and Southern Railway	18	38	13	---	---	1	8	6	84	98	2
Denver and Rio Grande Western Railroad	25	61	38	1	---	4	16	9	154	180	2
Duluth, Missabe and Iron Range Railway	15	55	11	---	3	---	15	4	103	109	---
Fort Worth and Denver Railway	18	36	13	---	1	3	4	2	77	85	---
Kansas City Southern Railway	98	138	49	---	15	6	41	14	361	390	---
Louisiana and Arkansas Railway	29	54	27	---	4	---	7	2	123	135	---
Missouri-Kansas-Texas Railroad	84	107	71	1	4	3	69	13	352	398	---
Missouri Pacific Railroad	346	694	242	8	28	13	141	78	1,550	1,701	1
St. Louis Southwestern Railway	142	222	84	2	12	3	53	13	531	571	---
Soo Line Railroad	89	235	62	---	4	8	33	32	463	514	1
Southern Pacific Trans. Company	798	1,379	497	6	84	29	343	119	3,255	3,502	4
Union Pacific Railroad	532	1,153	350	14	77	24	178	132	2,460	2,708	1
Western Pacific Railroad	46	96	40	2	10	1	40	16	251	274	1
SUBTOTAL, WESTERN DISTRICT:	3,595	7,734	2,872	57	369	152	1,532	921	17,232	18,928	32
CLASS II & III RAILROADS											
SUBTOTAL, CLASS II & III:	957	1,679	646	10	111	19	395	181	3,998	4,298	8
RECAPITULATION ALL DISTRICTS											
Class I RAILROADS	8,409	17,161	6,407	169	841	259	3,290	2,015	38,551	42,294	57
Class II & III Railroads	957	1,679	646	10	111	19	395	181	3,998	4,298	8
TOTAL FOR ALL RAILROADS	9,366	18,840	7,053	179	952	278	3,685	2,196	42,549	46,592	65

TABLE R5. CASUALTIES IN TRAIN ACCIDENTS BY RAILROAD

Railroad	..Collisions.. Killed	Injured	..Derailments. Killed	Injured	....Other..... Killed	Injured	.....Totals..... Killed	Injured	Miles (000)	Kld/Mil Miles	Inj/Mil Miles
CLASS I RAILROADS											
EASTERN DISTRICT											
National Railroad Passenger Corp. (Amtrak)	---	---	---	47	5	7	5	54	31,125	0.16	1.73
Baltimore and Ohio Railroad	---	16	---	3	---	---	---	19	18,863	0.00	1.00
Bessemer and Lake Erie Railroad	---	---	---	---	---	---	---	---	868	0.00	0.00
Boston and Maine Corp.	4	8	---	8	---	1	4	17	3,875	1.03	4.38
Chesapeake and Ohio Railway	---	5	---	8	---	1	---	14	18,843	0.00	0.74
Consolidated Rail Corp.	---	18	---	22	4	31	4	71	72,570	0.05	0.97
Delaware and Hudson Railway	---	---	---	---	---	---	---	---	2,460	0.00	0.00
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	2	---	2	1,553	0.00	1.28
Elgin, Joliet and Eastern Railway	---	1	---	3	---	---	---	4	1,827	0.00	2.18
Grand Trunk Western Railroad	---	3	---	2	---	1	---	6	4,677	0.00	1.28
Long Island Railroad	---	---	---	---	1	---	1	---	8,551	0.11	0.00
Norfolk and Western Railway	---	3	---	4	1	12	1	19	21,710	0.04	0.87
Pittsburg and Lake Erie Railroad	---	---	---	---	---	---	---	---	1,040	0.00	0.00
Western Maryland Railway	---	1	---	1	---	---	---	2	1,206	0.00	1.65
SUBTOTAL, EASTERN DISTRICT:	4	55	---	98	11	55	15	208	189,174	0.07	1.10
SOUTHERN DISTRICT											
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	3,330	0.00	0.00
Central of Georgia Railroad	---	---	---	---	---	2	---	2	3,811	0.00	0.52
Cinn., N.O. & Texas Pacific Railway	---	---	---	3	---	---	---	3	4,481	0.00	0.66
Clinchfield Railroad	---	---	---	---	---	---	---	---	1,349	0.00	0.00
Florida East Coast Railway	---	---	---	---	1	2	1	2	3,302	0.30	0.60
Illinois Central Gulf Railroad	---	---	---	6	---	3	---	9	23,269	0.00	0.38
Louisville and Nashville Railroad	1	5	---	4	1	6	2	15	24,539	0.08	0.61
Seaboard Coast Line Railroad	---	14	---	6	2	17	2	37	26,117	0.07	1.41
Southern Railway	---	8	---	2	10	13	10	23	26,727	0.37	0.86
SUBTOTAL, SOUTHERN DISTRICT:	1	27	---	21	14	43	15	91	116,929	0.12	0.77
WESTERN DISTRICT											
Atchison, Topeka and Santa Fe Railway	---	4	---	9	---	16	---	29	57,020	0.00	0.50
Burlington Northern Inc.	---	8	1	12	4	21	5	41	79,176	0.06	0.51
Chicago and Northwestern Trans. Company	---	5	---	7	1	5	1	17	21,469	0.04	0.79
Chicago, Milw., St. Paul & Pacific Railroad	---	1	1	4	1	8	2	13	11,027	0.18	1.17
Colorado and Southern Railway	---	2	2	1	---	---	2	3	2,430	0.82	1.23
Denver and Rio Grande Western Railroad	---	---	---	---	---	---	---	---	6,778	0.00	0.00
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	---	---	868	0.00	0.00
Fort Worth and Denver Railway	---	---	---	---	---	---	---	---	3,380	0.00	0.00
Kansas City Southern Railway	---	17	---	---	---	1	---	18	3,647	0.00	4.93
Louisiana and Arkansas Railway	---	4	---	---	---	1	---	5	1,721	0.00	2.90
Missouri-Kansas-Texas Railroad	---	1	---	4	---	2	---	7	4,974	0.00	1.40
Missouri Pacific Railroad	---	6	1	13	---	8	1	27	37,823	0.02	0.71
St. Louis Southwestern Railway	---	1	---	1	1	4	1	6	6,826	0.14	0.87
Soo Line Railroad	---	---	---	5	---	---	---	5	5,333	0.00	0.93
Southern Pacific Trans. Company	---	14	---	21	11	17	11	52	40,377	0.27	1.28
Union Pacific Railroad	---	2	---	11	---	2	---	15	39,601	0.00	0.37
Western Pacific Railroad	---	---	---	---	2	---	2	---	4,013	0.49	0.00
SUBTOTAL, WESTERN DISTRICT:	---	65	5	88	20	85	25	238	326,472	0.07	0.72
CLASS II & III RAILROADS											
SUBTOTAL, CLASS II & III:	---	3	---	14	8	8	8	25	43,640	0.18	0.57
RECAPITULATION ALL DISTRICTS											
Class I RAILROADS	5	147	5	207	45	183	55	537	632,576	0.08	0.84
Class II & III Railroads	---	3	---	14	8	8	8	25	43,640	0.18	0.57
TOTAL FOR ALL RAILROADS	5	150	5	221	53	191	63	562	676,216	0.09	0.83

NOTE: "Injured" includes nonfatal illnesses

TABLE R13. CASUALTIES IN TRAIN INCIDENTS BY OCCURRENCE AND RAILROAD

	Coupling		Operating Locos/Mtr Crs		Operating Hand Brakes		Operating Switches		Contact With Fixed Structure	
	Kill	Inj	Kill	Inj	Kill	Inj	Kill	Inj	Kill	Inj
CLASS I RAILROADS										
EASTERN DISTRICT										
National Railroad Passenger Corp. (Amtrak)	---	1	---	2	---	---	---	---	---	2
Baltimore and Ohio Railroad	---	9	---	26	---	7	---	---	---	5
Bessemer and Lake Erie Railroad	---	---	---	1	---	---	---	---	---	---
Boston and Maine Corp.	---	1	---	3	---	---	---	---	---	2
Chesapeake and Ohio Railway	---	21	---	23	---	22	---	2	---	5
Consolidated Rail Corp.	3	27	---	142	---	12	---	10	---	17
Delaware and Hudson Railway	---	2	---	2	---	1	---	---	---	---
Detroit, Toledo and Ironton Railroad	---	2	---	7	---	---	---	---	---	1
Elgin, Joliet and Eastern Railway	---	2	---	2	---	---	---	---	---	---
Grand Trunk Western Railroad	---	18	---	11	---	4	---	---	---	3
Long Island Railroad	---	---	---	2	---	3	---	---	---	2
Norfolk and Western Railway	---	19	---	19	---	10	---	2	---	3
Pittsburg and Lake Erie Railroad	---	2	---	4	---	---	---	---	---	3
Western Maryland Railway	---	---	---	---	---	1	---	---	---	---
SUBTOTAL, EASTERN DISTRICT:	3	104	---	244	---	60	---	14	---	43
SOUTHERN DISTRICT										
Alabama Great Southern Railroad	---	---	---	---	---	---	---	---	---	---
Central of Georgia Railroad	---	---	---	---	---	---	---	---	---	---
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	---	---	---	---	---
Clinchfield Railroad	---	2	---	1	---	---	---	---	---	---
Florida East Coast Railway	---	---	---	---	---	---	---	---	---	---
Illinois Central Gulf Railroad	---	16	---	40	---	3	---	4	---	7
Louisville and Nashville Railroad	---	5	---	25	---	2	---	1	---	3
Seaboard Coast Line Railroad	---	26	---	54	---	6	---	1	---	11
Southern Railway	---	3	---	---	---	---	---	---	---	---
SUBTOTAL, SOUTHERN DISTRICT:	---	52	---	120	---	11	---	6	---	21
WESTERN DISTRICT										
Atchison, Topeka and Santa Fe Railway	---	14	---	27	---	19	---	2	1	5
Burlington Northern Inc.	1	18	---	63	---	8	---	8	1	10
Chicago and Northwestern Trans. Company	---	6	---	8	---	4	---	---	---	6
Chicago, Milw., St. Paul & Pacific Railroad	---	16	---	13	---	3	---	2	---	2
Colorado and Southern Railway	---	1	---	3	---	---	---	---	---	2
Denver and Rio Grande Western Railroad	---	2	1	8	---	1	---	---	---	1
Duluth, Missabe and Iron Range Railway	---	---	---	---	---	---	---	---	---	1
Fort Worth and Denver Railway	---	---	---	---	---	---	---	---	---	---
Kansas City Southern Railway	---	3	---	3	---	4	---	---	---	3
Louisiana and Arkansas Railway	---	4	---	---	---	---	---	1	---	3
Missouri-Kansas-Texas Railroad	---	3	---	23	---	1	---	---	---	2
Missouri Pacific Railroad	---	19	---	51	---	13	---	5	---	4
St. Louis Southwestern Railway	---	---	---	14	---	1	---	---	---	---
Soo Line Railroad	---	12	---	5	---	2	---	1	---	---
Southern Pacific Trans. Company	---	25	---	96	---	18	---	---	---	15
Union Pacific Railroad	---	27	---	45	---	16	---	8	---	5
Western Pacific Railroad	---	8	---	11	---	---	---	---	---	---
SUBTOTAL, WESTERN DISTRICT:	1	158	1	370	---	90	---	27	2	59
CLASS II & III RAILROADS										
SUBTOTAL, CLASS II & III:	---	66	1	112	---	13	---	5	---	24
RECAPITULATION ALL DISTRICTS										
Class I RAILROADS	4	314	1	734	---	161	---	47	2	123
Class II & III Railroads	---	66	1	112	---	13	---	5	---	24
TOTAL FOR ALL RAILROADS	4	380	2	846	---	174	---	52	2	147

TABLE R13. (CONTINUED)

	Get ...On Off... Kill	Inj	Acc At Pub Xings Kill	Inj	Struck Or Run Over Kill	Inj	...Other... Kill	Inj	TOTAL..... Acc/Mil Kill	Man Hrs	Inj	Cas/Mil Man Hrs
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	19	1	5	14	7	1	330	16	.40	366	9.04
Baltimore and Ohio Railroad	---	53	15	89	17	28	---	150	32	1.09	367	12.51
Bessemer and Lake Erie Railroad	---	---	---	1	---	---	---	2	---	---	4	1.77
Boston and Maine Corp.	---	6	1	1	2	6	---	13	3	.52	32	5.55
Chesapeake and Ohio Railway	1	58	11	70	9	23	2	111	23	.63	335	9.22
Consolidated Rail Corp.	4	141	70	175	72	67	2	603	151	1.14	1,194	9.00
Delaware and Hudson Railway	---	8	1	3	---	2	---	8	1	.29	26	7.62
Detroit, Toledo and Ironton Railroad	---	2	1	15	---	3	---	8	1	.42	38	16.01
Elgin, Joliet and Eastern Railway	---	6	1	13	---	---	---	21	1	.25	44	10.97
Grand Trunk Western Railroad	---	25	8	48	2	6	---	52	10	1.23	167	20.46
Long Island Railroad	1	13	9	6	14	9	---	117	24	1.89	152	11.97
Norfolk and Western Railway	---	58	37	151	20	41	2	154	59	1.47	457	11.36
Pittsburg and Lake Erie Railroad	---	---	2	2	---	---	---	10	2	.55	21	5.76
Western Maryland Railway	---	4	2	9	---	2	---	15	2	.93	31	14.36
SUBTOTAL, EASTERN DISTRICT:	6	393	159	588	150	194	7	1,594	325	1.00	3,234	10.00
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	3	8	23	7	3	---	9	15	A	38	A
Central of Georgia Railroad	---	18	3	30	4	6	1	29	8	A	83	A
Cinn., N.O. & Texas Pacific Railway	---	2	3	5	---	3	---	9	3	A	19	A
Clinchfield Railroad	---	5	---	3	1	5	---	5	1	.53	21	11.17
Florida East Coast Railway	---	2	11	10	3	5	---	3	14	5.49	20	7.85
Illinois Central Gulf Railroad	---	34	16	248	7	27	---	157	23	.69	536	16.13
Louisville and Nashville Railroad	1	44	29	101	12	18	1	70	43	1.52	269	9.50
Seaboard Coast Line Railroad	---	96	37	144	36	35	1	152	74	1.86	525	13.19
Southern Railway	---	73	20	136	33	48	---	134	53	1.39	394	10.35
SUBTOTAL, SOUTHERN DISTRICT:	1	277	127	700	103	150	3	568	234	1.63	1,905	13.24
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	---	123	61	207	36	35	---	66	98	1.59	498	8.07
Burlington Northern Inc.	4	156	71	160	27	46	8	239	112	1.12	708	7.08
Chicago and Northwestern Trans. Company	1	33	29	134	10	12	2	86	42	1.36	289	9.36
Chicago, Milw., St. Paul & Pacific Railroad	---	42	12	20	7	12	1	40	20	1.37	150	10.26
Colorado and Southern Railway	---	6	---	7	2	---	1	11	3	1.87	30	18.67
Denver and Rio Grande Western Railroad	---	13	4	7	2	3	1	19	8	1.02	54	6.91
Duluth, Missabe and Iron Range Railway	---	1	---	3	---	---	---	6	---	---	11	3.58
Fort Worth and Denver Railway	---	9	4	6	1	2	1	7	6	1.79	24	7.17
Kansas City Southern Railway	---	15	4	35	2	2	---	27	6	.96	92	14.66
Louisiana and Arkansas Railway	---	8	2	40	2	5	1	22	5	B	83	B
Missouri-Kansas-Texas Railroad	---	13	4	55	1	9	1	34	6	.91	140	21.27
Missouri Pacific Railroad	---	60	50	343	33	48	---	120	83	1.97	663	15.71
St. Louis Southwestern Railway	---	14	8	23	1	5	---	40	9	.92	97	9.89
Soo Line Railroad	---	24	17	54	1	6	1	53	19	2.31	157	19.07
Southern Pacific Trans. Company	9	187	32	200	54	62	4	296	99	1.57	899	14.27
Union Pacific Railroad	---	128	30	93	12	14	---	197	42	.87	533	11.01
Western Pacific Railroad	---	12	2	9	5	1	---	28	7	1.47	69	14.53
SUBTOTAL, WESTERN DISTRICT:	14	844	330	1,396	196	262	21	1,291	565	1.37	4,497	10.91
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	1	179	19	199	9	26	3	245	33	.47	869	12.49
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	21	1,514	616	2,684	449	606	31	3,453	1,124	1.28	9,636	10.95
Class II & III Railroads	1	179	19	199	9	26	3	245	33	.47	869	12.49
TOTAL FOR ALL RAILROADS	22	1,693	635	2,883	458	632	34	3,698	1,157	1.22	10,505	11.07

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway

Injured columns include nonfatal illnesses

TABLE R6. CASUALTIES IN NONTRAIN INCIDENTS BY RAILROAD

	...Coupling...		Operating Locos/Mtr Crs		Operating Hand Brakes		Operating Switches		Contact with Fixed Structures		Getting on or off car or Loco	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	17	---	1	---	---	---	2	---	---	---	71
Baltimore and Ohio Railroad	---	52	---	23	---	28	---	87	---	1	---	78
Bessemer and Lake Erie Railroad	---	1	---	---	---	1	---	---	---	---	---	---
Boston and Maine Corp.	---	1	---	1	---	1	---	5	---	---	---	16
Chesapeake and Ohio Railway	---	58	---	13	---	26	---	63	---	---	---	75
Consolidated Rail Corp.	---	163	---	103	---	50	---	195	---	---	---	182
Delaware and Hudson Railway	---	1	---	1	---	---	---	4	---	---	---	7
Detroit, Toledo and Ironton Railroad	---	2	---	4	---	---	---	10	---	---	---	2
Elgin, Joliet and Eastern Railway	---	3	---	---	---	---	---	11	---	---	---	4
Grand Trunk Western Railroad	---	18	---	5	---	4	---	38	---	---	---	31
Long Island Railroad	---	5	---	5	---	5	---	13	---	---	---	119
Norfolk and Western Railway	---	49	---	14	---	27	---	59	---	---	---	68
Pittsburg and Lake Erie Railroad	---	1	---	---	---	3	---	3	---	---	---	2
Western Maryland Railway	---	6	---	---	---	5	---	2	---	---	---	10
SUBTOTAL, EASTERN DISTRICT:	---	377	---	170	---	150	---	494	---	1	---	665
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	---	1	---	---	---	1	---	1	---	---	---	2
Central of Georgia Railroad	---	4	---	---	---	4	---	11	---	---	---	7
Cinn., N.O. & Texas Pacific Railway	---	1	---	---	---	1	---	4	---	---	---	5
Clinchfield Railroad	---	1	---	1	---	1	---	1	---	1	---	6
Florida East Coast Railway	---	1	---	1	---	---	---	2	---	---	---	1
Illinois Central Gulf Railroad	---	67	---	16	---	27	---	82	---	1	---	99
Louisville and Nashville Railroad	---	34	---	13	---	15	---	51	---	3	---	47
Seaboard Coast Line Railroad	---	46	---	24	---	22	---	76	---	---	---	47
Southern Railway	---	38	---	---	---	38	---	52	---	---	1	36
SUBTOTAL, SOUTHERN DISTRICT:	---	193	---	55	---	109	---	280	---	5	1	250
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	---	61	---	40	---	39	---	75	---	---	---	81
Burlington Northern Inc.	---	125	---	58	---	59	---	153	---	2	---	154
Chicago and Northwestern Trans. Company	---	42	---	5	---	14	---	47	---	---	---	54
Chicago, Milw., St. Paul & Pacific Railroad	---	26	---	9	---	8	---	39	---	---	---	42
Colorado and Southern Railway	---	2	---	---	---	2	---	5	---	---	---	7
Denver and Rio Grande Western Railroad	---	4	---	2	---	3	---	8	---	---	---	16
Duluth, Missabe and Iron Range Railway	---	2	---	1	---	---	---	8	---	---	---	---
Fort Worth and Denver Railway	---	2	---	1	---	---	---	1	---	---	---	4
Kansas City Southern Railway	---	11	---	2	---	5	---	18	---	---	---	9
Louisiana and Arkansas Railway	---	8	---	1	---	---	---	4	---	---	---	5
Missouri-Kansas-Texas Railroad	---	10	---	5	---	3	---	7	---	---	---	11
Missouri Pacific Railroad	---	76	---	32	---	24	---	105	---	2	---	100
St. Louis Southwestern Railway	---	24	---	11	---	6	---	19	---	---	---	26
Soo Line Railroad	---	13	---	7	---	5	---	24	---	---	---	25
Southern Pacific Trans. Company	---	113	---	52	---	77	---	143	---	1	---	172
Union Pacific Railroad	---	65	---	25	---	32	---	75	---	---	---	91
Western Pacific Railroad	---	12	---	6	---	6	---	11	---	---	---	9
SUBTOTAL, WESTERN DISTRICT:	---	596	---	257	---	283	---	742	---	5	---	806
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	---	172	---	68	---	61	---	184	---	5	---	182
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	---	1,166	---	482	---	542	---	1,516	---	11	1	1,721
Class II & III Railroads	---	172	---	68	---	61	---	184	---	5	---	182
TOTAL FOR ALL RAILROADS	---	1,338	---	550	---	603	---	1,700	---	16	1	1,903

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway

Injured columns do not include nonfatal illnesses

TABLE R6. (CONTINUED)

	Acc At Pub Xings		Struck or Run Over		....Other.....		Totals					
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Per Mil Man Hours	Injured	Per Mil Man Hours	Illness	Per Mil Man Hours
CLASS I RAILROADS												
EASTERN DISTRICT												
National Railroad Passenger Corp. (Amtrak)	---	---	2	---	4	1,833	6	0.15	1,924	47.52	44	1.09
Baltimore and Ohio Railroad	---	1	---	1	---	1,085	---	---	1,356	46.22	37	1.26
Bessemer and Lake Erie Railroad	---	---	---	---	---	47	---	---	49	21.68	4	1.77
Boston and Maine Corp.	---	---	---	---	---	147	---	---	171	29.65	3	0.52
Chesapeake and Ohio Railway	4	3	---	1	1	1,097	5	0.14	1,336	36.75	29	0.80
Consolidated Rail Corp.	---	7	---	---	6	5,277	6	0.05	5,977	45.06	208	1.57
Delaware and Hudson Railway	---	---	---	---	---	112	---	---	125	36.66	6	1.76
Detroit, Toledo and Ironton Railroad	---	---	---	---	---	116	---	---	134	56.47	3	1.26
Elgin, Joliet and Eastern Railway	---	---	---	---	---	107	---	---	125	31.16	---	---
Grand Trunk Western Railroad	---	2	---	---	---	281	---	---	379	46.43	5	0.61
Long Island Railroad	---	---	---	---	---	1,084	---	---	1,231	96.94	125	9.84
Norfolk and Western Railway	1	4	---	---	2	1,742	3	0.07	1,963	48.82	26	0.65
Pittsburg and Lake Erie Railroad	---	---	---	---	---	196	---	---	207	56.73	5	1.37
Western Maryland Railway	---	1	---	---	---	81	---	---	105	48.63	8	3.71
SUBTOTAL, EASTERN DISTRICT:	5	18	2	2	13	13,205	20	0.06	15,082	46.62	503	1.55
SOUTHERN DISTRICT												
Alabama Great Southern Railroad	1	4	---	---	---	29	1	A	38	A	---	A
Central of Georgia Railroad	---	1	---	---	1	72	1	A	99	A	2	A
Cinn., N.O. & Texas Pacific Railway	---	---	---	---	---	44	---	A	55	A	---	A
Clinchfield Railroad	---	---	---	---	---	28	---	---	39	20.74	2	1.06
Florida East Coast Railway	---	---	---	---	---	18	---	---	23	9.03	---	---
Illinois Central Gulf Railroad	---	11	---	3	1	1,559	1	0.03	1,865	56.12	41	1.23
Louisville and Nashville Railroad	1	2	---	1	1	1,022	2	0.07	1,188	41.96	9	0.32
Seaboard Coast Line Railroad	1	5	1	1	3	1,037	5	0.13	1,258	31.61	14	0.35
Southern Railway	1	9	---	---	---	826	2	0.05	999	26.24	10	0.26
SUBTOTAL, SOUTHERN DISTRICT:	4	32	1	5	6	4,635	12	0.08	5,564	38.68	78	0.54
WESTERN DISTRICT												
Atchison, Topeka and Santa Fe Railway	4	8	---	2	---	1,252	4	0.06	1,558	25.26	13	0.21
Burlington Northern Inc.	---	6	---	3	7	2,802	7	0.07	3,362	33.61	91	0.91
Chicago and Northwestern Trans. Company	---	4	---	---	4	1,371	4	0.13	1,537	49.76	44	1.42
Chicago, Milw., St. Paul & Pacific Railroad	---	---	1	1	1	829	2	0.14	954	65.28	30	2.05
Colorado and Southern Railway	---	---	---	---	---	56	---	---	72	44.80	---	---
Denver and Rio Grande Western Railroad	---	---	---	1	1	108	1	0.13	142	18.18	3	0.38
Duluth, Missabe and Iron Range Railway	---	---	---	---	1	127	1	0.33	138	44.88	3	0.98
Fort Worth and Denver Railway	---	---	---	---	---	66	---	---	74	22.11	1	0.30
Kansas City Southern Railway	---	---	---	---	---	273	---	---	318	50.67	5	0.80
Louisiana and Arkansas Railway	---	3	---	---	---	76	---	B	97	B	3	B
Missouri-Kansas-Texas Railroad	---	2	---	---	---	288	---	---	326	49.53	6	0.91
Missouri Pacific Railroad	2	11	---	3	1	1,078	3	0.07	1,431	33.92	41	0.97
St. Louis Southwestern Railway	1	5	---	---	---	426	1	0.10	517	52.72	16	1.63
Soo Line Railroad	---	2	---	4	1	344	1	0.12	424	51.51	11	1.34
Southern Pacific Trans. Company	---	5	---	4	---	2,353	---	---	2,920	46.36	160	2.54
Union Pacific Railroad	---	2	---	---	1	2,054	1	0.02	2,344	48.42	17	0.35
Western Pacific Railroad	---	1	---	---	---	176	---	---	221	46.54	4	0.84
SUBTOTAL, WESTERN DISTRICT:	7	49	1	18	17	13,679	25	0.06	16,435	39.86	448	1.09
CLASS II & III RAILROADS												
SUBTOTAL, CLASS II & III:	1	4	---	3	6	3,087	7	0.10	3,766	54.14	60	0.86
RECAPITULATION ALL DISTRICTS												
Class I RAILROADS	16	99	4	25	36	31,519	57	0.06	37,081	42.15	1,029	1.17
Class II & III Railroads	1	4	---	3	6	3,087	7	0.10	3,766	54.14	60	0.86
TOTAL FOR ALL RAILROADS	17	103	4	28	42	34,606	64	0.07	40,847	43.03	1,089	1.15

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway

Injured columns do not include nonfatal illnesses

TABLE R9. FATALITIES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff II. Prof,Clerical,General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).	---	13,923	0.00	1	7,364	0.14	---	9,985	0.00
Baltimore and Ohio Railroad	---	4,617	0.00	---	6,455	0.00	---	6,144	0.00
Bessemer and Lake Erie Railroad	---	949	0.00	---	350	0.00	---	550	0.00
Boston and Maine Corp	---	1,557	0.00	---	1,116	0.00	---	1,336	0.00
Chesapeake and Ohio Railway	---	9,942	0.00	1	5,323	0.19	---	9,559	0.00
Consolidated Rail Corp	---	35,121	0.00	1	22,245	0.04	---	27,956	0.00
Delaware and Hudson Railway	---	893	0.00	---	636	0.00	---	728	0.00
Detroit, Toledo and Ironton Railroad	---	497	0.00	---	411	0.00	---	642	0.00
Elgin, Joliet and Eastern Railway	---	1,252	0.00	---	704	0.00	---	684	0.00
Grand Trunk Western Railroad	---	2,901	0.00	---	1,067	0.00	---	1,557	0.00
Long Island Railroad	---	2,709	0.00	---	2,033	0.00	1	4,241	0.24
Norfolk and Western Railway	---	10,104	0.00	3	8,868	0.34	1	8,394	0.12
Pittsburg and Lake Erie Railroad	---	1,160	0.00	---	534	0.00	---	1,113	0.00
Western Maryland Railway	---	259	0.00	---	470	0.00	---	487	0.00
SUBTOTAL, EASTERN DISTRICT:	---	85,884	0.00	6	57,576	0.10	2	73,376	0.03
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad	---	---	A	---	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway	---	---	A	---	---	A	---	---	A
Clinchfield Railroad	---	195	0.00	---	515	0.00	---	334	0.00
Florida East Coast Railway	---	605	0.00	---	767	0.00	---	442	0.00
Illinois Central Gulf Railroad	---	7,863	0.00	---	6,072	0.00	---	8,368	0.00
Louisville and Nashville Railroad	---	4,080	0.00	---	5,962	0.00	---	7,064	0.00
Seaboard Coast Line Railroad	---	10,078	0.00	1	7,423	0.13	1	8,660	0.12
Southern Railway	---	8,974	0.00	---	6,604	0.00	---	6,974	0.00
SUBTOTAL, SOUTHERN DISTRICT:	---	31,795	0.00	1	27,343	0.04	1	31,842	0.03
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	---	15,990	0.00	---	12,490	0.00	1	14,097	0.07
Burlington Northern Inc.	3	23,011	0.13	1	22,583	0.04	1	22,167	0.05
Chicago and Northwestern Trans. Company	---	6,823	0.00	1	7,169	0.14	---	6,235	0.00
Chicago, Milw., St. Paul & Pacific Railroad	1	3,580	0.28	1	3,520	0.28	---	2,665	0.00
Colorado and Southern Railway	---	150	0.00	---	639	0.00	---	5	0.00
Denver and Rio Grande Western Railroad	1	1,750	0.57	1	1,710	0.58	---	1,833	0.00
Duluth, Missabe and Iron Range Railway	---	660	0.00	---	599	0.00	---	776	0.00
Fort Worth and Denver Railway	---	330	0.00	---	1,106	0.00	---	395	0.00
Kansas City Southern Railway	---	1,466	0.00	---	1,318	0.00	---	979	0.00
Louisiana and Arkansas Railway	---	---	B	---	---	B	---	---	B
Missouri-Kansas-Texas Railroad	---	1,531	0.00	---	1,507	0.00	---	1,004	0.00
Missouri Pacific Railroad	---	8,965	0.00	1	8,965	0.11	---	7,749	0.00
St. Louis Southwestern Railway	---	2,103	0.00	---	2,692	0.00	---	1,782	0.00
Soo Line Railroad	1	2,000	0.50	---	2,142	0.00	---	1,578	0.00
Southern Pacific Trans. Company	---	18,598	0.00	1	11,331	0.09	1	13,065	0.08
Union Pacific Railroad	---	15,081	0.00	1	9,936	0.10	---	11,039	0.00
Western Pacific Railroad	---	1,409	0.00	---	1,140	0.00	---	784	0.00
SUBTOTAL, WESTERN DISTRICT:	6	103,447	0.06	7	88,847	0.08	3	86,153	0.03
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:	---	---	C	5	---	C	1	---	C
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	6	221,126	0.03	14	173,766	0.08	6	191,371	0.03
Class II & III Railroads	---	---	C	5	---	C	1	---	C
TOTAL FOR ALL RAILROADS	6	221,126	0.03	19	173,766	0.11	7	191,371	0.04

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R9. (CONTINUED)

	V. VIa. Transportation not train, engine, yard			VIb. Transportation Train and Engine			.....TOTAL.....		
	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs	Killed	Man Hrs (Thou)	Kld/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT	---	9,218	0.00	---	---	---	1	40,490	0.02
National Railroad Passenger Corp. (Amtrak).	---	2,634	0.00	1	9,490	0.11	1	29,340	0.03
Baltimore and Ohio Railroad	---	116	0.00	---	295	0.00	---	2,260	0.00
Bessemer and Lake Erie Railroad	---	399	0.00	3	1,359	2.21	3	5,767	0.52
Boston and Maine Corp	---	2,946	0.00	2	8,582	0.23	3	36,352	0.08
Chesapeake and Ohio Railway	---	9,187	0.00	4	38,125	0.10	5	132,634	0.04
Consolidated Rail Corp	---	139	0.00	---	1,014	0.00	---	3,410	0.00
Delaware and Hudson Railway	---	125	0.00	---	698	0.00	---	2,373	0.00
Detroit, Toledo and Ironton Railroad	---	269	0.00	---	1,102	0.00	---	4,011	0.00
Elgin, Joliet and Eastern Railway	---	398	0.00	---	2,239	0.00	---	8,162	0.00
Grand Trunk Western Railroad	---	774	0.00	---	2,941	0.00	1	12,698	0.08
Long Island Railroad	---	2,389	0.00	1	10,457	0.10	5	40,212	0.12
Norfolk and Western Railway	---	160	0.00	---	682	0.00	---	3,649	0.00
Pittsburg and Lake Erie Railroad	---	83	0.00	---	860	0.00	---	2,159	0.00
Western Maryland Railway	---	28,837	0.00	11	77,844	0.14	19	323,517	0.06
SUBTOTAL, EASTERN DISTRICT:									
SOUTHERN DISTRICT	---	---	A	---	---	A	---	---	A
Alabama Great Southern Railroad	---	---	A	1	---	A	1	---	A
Central of Georgia Railroad	---	---	A	---	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway	---	165	0.00	---	671	0.00	---	1,880	0.00
Clinchfield Railroad	---	116	0.00	---	618	0.00	---	2,548	0.00
Florida East Coast Railway	---	1,987	0.00	---	8,943	0.00	---	33,233	0.00
Illinois Central Gulf Railroad	---	1,987	0.00	1	9,223	0.11	1	28,316	0.04
Louisville and Nashville Railroad	---	2,793	0.00	---	10,849	0.00	2	39,803	0.05
Seaboard Coast Line Railroad	---	2,664	0.00	2	12,852	0.16	2	38,068	0.05
Southern Railway	---	9,712	0.00	4	43,156	0.09	6	143,848	0.04
SUBTOTAL, SOUTHERN DISTRICT:									
WESTERN DISTRICT	---	3,138	0.00	2	15,970	0.13	3	61,685	0.05
Atchison, Topeka and Santa Fe Railway	---	6,999	0.00	4	25,262	0.16	9	100,022	0.09
Burlington Northern Inc	1	2,355	0.42	3	8,309	0.36	5	30,891	0.16
Chicago and Northwestern Trans. Company	---	978	0.00	1	3,872	0.26	3	14,615	0.21
Chicago, Milw., St. Paul & Pacific Railroad	---	24	0.00	2	789	2.53	2	1,607	1.24
Colorado and Southern Railway	---	466	0.00	---	2,053	0.00	2	7,812	0.26
Denver and Rio Grande Western Railroad	---	334	0.00	---	706	0.00	---	3,075	0.00
Duluth, Missabe and Iron Range Railway	---	301	0.00	---	1,215	0.00	---	3,347	0.00
Fort Worth and Denver Railway	---	242	0.00	---	2,271	0.00	---	6,276	0.00
Kansas City Southern Railway	---	---	B	---	---	B	---	---	B
Louisiana and Arkansas Railway	---	344	0.00	---	2,196	0.00	---	6,582	0.00
Missouri-Kansas-Texas Railroad	---	2,420	0.00	---	14,090	0.00	1	42,189	0.02
Missouri Pacific Railroad	---	498	0.00	---	2,732	0.00	---	9,807	0.00
St. Louis Southwestern Railway	---	619	0.00	---	1,893	0.00	1	8,232	0.12
Soo Line Railroad	---	3,131	0.00	2	16,854	0.12	4	62,979	0.06
Southern Pacific Trans. Company	---	2,645	0.00	---	9,710	0.00	1	48,411	0.02
Union Pacific Railroad	---	205	0.00	1	1,211	0.83	1	4,749	0.21
Western Pacific Railroad	1	24,699	0.04	15	109,133	0.14	32	412,279	0.08
SUBTOTAL, WESTERN DISTRICT:									
CLASS II & III RAILROADS	---	---	C	2	---	C	8	69,560	0.12
SUBTOTAL, CLASS II & III:									
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	1	63,248	0.02	30	230,133	0.13	57	879,644	0.06
Class II & III Railroads	---	---	C	2	---	C	8	69,560	0.12
TOTAL FOR ALL RAILROADS	1	63,248	0.02	32	230,133	0.14	65	949,204	0.07

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R10. INJURIES TO EMPLOYESS ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff II. Prof,Clerical,General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs	Injured	Man Hrs(Thou)	Inj/Mil Man Hrs	Injured	Man Hrs(Thou)	Inj/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).	227	13,923	16.30	642	7,364	87.18	641	9,985	64.20
Baltimore and Ohio Railroad	84	4,617	18.19	600	6,455	92.95	262	6,144	42.64
Bessemer and Lake Erie Railroad	2	949	2.11	27	350	77.14	16	550	29.09
Boston and Maine Corp	14	1,557	8.99	62	1,116	55.56	53	1,336	39.67
Chesapeake and Ohio Railway	52	9,942	5.23	408	5,323	76.65	539	9,559	56.39
Consolidated Rail Corp	468	35,121	13.33	1,959	22,245	88.06	2,172	27,956	77.73
Delaware and Hudson Railway	1	893	1.12	43	636	67.61	55	728	75.55
Detroit, Toledo and Ironton Railroad	9	497	18.11	50	411	121.65	46	642	71.65
Elgin, Joliet and Eastern Railway	13	1,252	10.38	35	704	49.72	41	684	59.94
Grand Trunk Western Railroad	32	2,901	11.03	79	1,067	74.04	114	1,557	73.22
Long Island Railroad	73	2,709	26.95	321	2,033	157.89	499	4,241	117.66
Norfolk and Western Railway	90	10,104	8.91	917	8,868	103.41	639	8,394	76.13
Pittsburg and Lake Erie Railroad	8	1,160	6.90	67	534	125.47	116	1,113	104.22
Western Maryland Railway	10	259	38.61	45	470	95.74	15	487	30.80
SUBTOTAL, EASTERN DISTRICT:	1,083	85,884	12.61	5,255	57,576	91.27	5,209	73,376	70.99
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	2	---	A	15	---	A	2	---	A
Central of Georgia Railroad	2	---	A	27	---	A	16	---	A
Cinn., N.O. & Texas Pacific Railway	4	---	A	23	---	A	8	---	A
Clinchfield Railroad	---	195	0.00	17	515	33.01	7	334	20.96
Florida East Coast Railway	1	605	1.65	13	767	16.95	3	442	6.79
Illinois Central Gulf Railroad	62	7,863	7.89	814	6,072	134.06	624	8,368	74.57
Louisville and Nashville Railroad	40	4,080	9.80	491	5,962	82.35	395	7,064	55.92
Seaboard Coast Line Railroad	37	10,078	3.67	501	7,423	67.49	380	8,660	43.88
Southern Railway	55	8,974	6.13	208	6,604	31.50	426	6,974	61.08
SUBTOTAL, SOUTHERN DISTRICT:	203	31,795	6.38	2,109	27,343	77.13	1,861	31,842	58.44
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	66	15,990	4.13	525	12,490	42.03	591	14,097	41.92
Burlington Northern Inc	157	23,011	6.82	1,384	22,583	61.29	1,040	22,167	46.92
Chicago and Northwestern Trans. Company	60	6,823	8.79	650	7,169	90.67	507	6,235	81.32
Chicago, Milw., St. Paul & Pacific Railroad	86	3,580	24.02	502	3,520	142.61	223	2,665	83.68
Colorado and Southern Railway	1	150	6.67	47	639	73.55	1	5	200.00
Denver and Rio Grande Western Railroad	3	1,750	1.71	62	1,710	36.26	34	1,833	18.55
Duluth, Missabe and Iron Range Railway	4	660	6.06	36	599	60.10	48	776	61.86
Fort Worth and Denver Railway	1	330	3.03	48	1,106	43.40	9	395	22.78
Kansas City Southern Railway	4	1,466	2.73	145	1,318	110.02	95	979	97.04
Louisiana and Arkansas Railway	---	---	B	60	---	B	9	---	B
Missouri-Kansas-Texas Railroad	11	1,531	7.18	205	1,507	136.03	48	1,004	47.81
Missouri Pacific Railroad	36	8,965	4.02	593	8,965	66.15	375	7,749	48.39
St. Louis Southwestern Railway	31	2,103	14.74	293	2,692	108.84	94	1,782	52.75
Soo Line Railroad	9	2,000	4.50	226	2,142	105.51	107	1,578	67.81
Southern Pacific Trans. Company	306	18,598	16.45	1,008	11,331	88.96	825	13,065	63.15
Union Pacific Railroad	160	15,081	10.61	913	9,936	91.89	861	11,039	78.00
Western Pacific Railroad	9	1,409	6.39	76	1,140	66.67	77	784	98.21
SUBTOTAL, WESTERN DISTRICT:	944	103,447	9.13	6,773	88,847	76.23	4,944	86,153	57.39
CLASS II & III RAILROADS SUBTOTAL, CLASS II & III:	219	---	C	1,638	---	C	971	---	C
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	2,230	221,126	10.08	14,137	173,766	81.36	12,014	191,371	62.78
Class II & III Railroads	219	---	C	1,638	---	C	971	---	C
TOTAL FOR ALL RAILROADS	2,449	221,126	11.08	15,775	173,766	90.78	12,985	191,371	67.85

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R10. (CONTINUED)

	V. VIa. Transportation not train, engine, yard			VIb. Transportation Train and Engine			.....TOTAL.....		
	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs	Injured	Man Hrs (Thou)	Inj/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).	543	9,218	58.91	---	---	---	2,053	40,490	50.70
Baltimore and Ohio Railroad	47	2,634	17.84	588	9,490	61.96	1,581	29,340	53.89
Bessemer and Lake Erie Railroad	---	116	0.00	5	295	16.95	50	2,260	22.12
Boston and Maine Corp.	---	399	0.00	58	1,359	42.68	187	5,767	32.43
Chesapeake and Ohio Railway	38	2,946	12.90	502	8,582	58.49	1,539	36,352	42.34
Consolidated Rail Corp	144	9,187	15.67	2,004	38,125	52.56	6,748	132,634	50.88
Delaware and Hudson Railway	2	139	14.39	44	1,014	43.39	145	3,410	42.52
Detroit, Toledo and Ironton Railroad	3	125	24.00	45	698	64.47	153	2,373	64.48
Elgin, Joliet and Eastern Railway	7	269	26.02	58	1,102	52.63	154	4,011	38.39
Grand Trunk Western Railroad	7	398	17.59	250	2,239	111.66	482	8,162	59.05
Long Island Railroad	36	774	46.51	305	2,341	103.71	1,234	12,698	97.18
Norfolk and Western Railway	26	2,389	10.88	503	10,457	48.10	2,175	40,212	54.09
Pittsburg and Lake Erie Railroad	2	160	12.50	33	682	48.39	226	3,649	61.93
Western Maryland Railway	---	83	0.00	50	860	58.14	120	2,159	55.58
SUBTOTAL, EASTERN DISTRICT:	855	28,837	29.65	4,445	77,844	57.10	16,847	323,517	52.07
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	1	---	A	25	---	A	45	---	A
Central of Georgia Railroad	3	---	A	94	---	A	142	---	A
Cinn., N.O. & Texas Pacific Railway	2	---	A	25	---	A	62	---	A
Clinchfield Railroad	2	165	12.12	27	671	40.24	53	1,880	28.19
Florida East Coast Railway	---	116	0.00	10	618	16.18	27	2,548	10.60
Illinois Central Gulf Railroad	25	1,987	12.58	548	8,943	61.28	2,073	33,233	62.38
Louisville and Nashville Railroad	25	1,987	12.58	382	9,223	41.42	1,333	28,316	47.08
Seaboard Coast Line Railroad	55	2,793	19.69	627	10,849	57.79	1,600	39,803	40.20
Southern Railway	35	2,664	13.14	460	12,852	35.79	1,184	38,068	31.10
SUBTOTAL, SOUTHERN DISTRICT:	148	9,712	15.24	2,198	43,156	50.93	6,519	143,848	45.32
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	13	3,138	4.14	592	15,970	37.07	1,787	61,685	28.97
Burlington Northern Inc.	84	6,999	12.00	1,103	25,262	43.66	3,768	100,022	37.67
Chicago and Northwestern Trans. Company	39	2,355	16.56	384	8,309	46.21	1,640	30,891	53.09
Chicago, Milw., St. Paul & Pacific Railroad	5	978	5.11	252	3,872	65.08	1,068	14,615	73.08
Colorado and Southern Railway	1	24	41.67	48	789	60.84	98	1,607	60.98
Denver and Rio Grande Western Railroad	---	466	0.00	81	2,053	39.45	180	7,812	23.04
Duluth, Missabe and Iron Range Railway	1	334	2.99	20	706	28.33	109	3,075	35.45
Fort Worth and Denver Railway	---	301	0.00	27	1,215	22.22	85	3,347	25.40
Kansas City Southern Railway	1	242	4.13	145	2,271	63.85	390	6,276	62.14
Louisiana and Arkansas Railway	---	---	B	66	---	B	135	---	B
Missouri-Kansas-Texas Railroad	11	344	31.98	123	2,196	56.01	398	6,582	60.47
Missouri Pacific Railroad	30	2,420	12.40	667	14,090	47.34	1,701	42,189	40.32
St. Louis Southwestern Railway	6	498	12.05	147	2,732	53.81	571	9,807	58.22
Soo Line Railroad	7	619	11.31	165	1,893	87.16	514	8,232	62.44
Southern Pacific Trans. Company	75	3,131	23.95	1,288	16,854	76.42	3,502	62,979	55.61
Union Pacific Railroad	55	2,645	20.79	719	9,710	74.05	2,708	48,411	55.94
Western Pacific Railroad	1	205	4.88	111	1,211	91.66	274	4,749	57.70
SUBTOTAL, WESTERN DISTRICT:	329	24,699	13.32	5,938	109,133	54.41	18,928	412,279	45.91
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:	163	---	C	1,307	---	C	4,298	69,560	61.79
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	1,332	63,248	21.06	12,581	230,133	54.67	42,294	879,644	48.08
Class II & III Railroads	163	---	C	1,307	---	C	4,298	69,560	61.79
TOTAL FOR ALL RAILROADS	1,495	63,248	23.64	13,888	230,133	60.35	46,592	949,204	49.09

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R11. ILLNESSES TO EMPLOYEES ON DUTY BY JOB CATEGORY AND RAILROAD

	I. Exec Office Staff II. Prof, Clerical, General			III. Maintenance of Way and Structures			IV. Maintenance of Equipment and Stores		
	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak)	4	13,923	0.29	25	7,364	3.39	13	9,985	1.30
Baltimore and Ohio Railroad	1	4,617	0.22	15	6,455	2.32	9	6,144	1.46
Bessemer and Lake Erie Railroad	---	949	0.00	2	350	5.71	2	550	3.64
Boston and Maine Corp	---	1,557	0.00	3	1,116	2.69	---	1,336	0.00
Chesapeake and Ohio Railway	1	9,942	0.10	7	5,323	1.32	10	9,559	1.05
Consolidated Rail Corp	12	35,121	0.34	89	22,245	4.00	69	27,956	2.47
Delaware and Hudson Railway	---	893	0.00	2	636	3.14	2	728	2.75
Detroit, Toledo and Ironton Railroad	---	497	0.00	2	411	4.87	1	642	1.56
Elgin, Joliet and Eastern Railway	---	1,252	0.00	---	704	0.00	---	684	0.00
Grand Trunk Western Railroad	---	2,901	0.00	1	1,067	0.94	2	1,557	1.28
Long Island Railroad	3	2,709	1.11	89	2,033	43.78	27	4,241	6.37
Norfolk and Western Railway	2	10,104	0.20	15	8,868	1.69	6	8,394	0.71
Pittsburg and Lake Erie Railroad	---	1,160	0.00	---	534	0.00	5	1,113	4.49
Western Maryland Railway	---	259	0.00	5	470	10.64	---	487	0.00
SUBTOTAL, EASTERN DISTRICT:	23	85,884	0.27	255	57,576	4.43	146	73,376	1.99
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad	1	---	A	1	---	A	---	---	A
Cinn., N.O. & Texas Pacific Railway	---	---	A	---	---	A	---	---	A
Clinchfield Railroad	---	195	0.00	1	515	1.94	---	334	0.00
Florida East Coast Railway	---	605	0.00	---	767	0.00	---	442	0.00
Illinois Central Gulf Railroad	---	7,863	0.00	27	6,072	4.45	13	8,368	1.55
Louisville and Nashville Railroad	---	4,080	0.00	7	5,962	1.17	1	7,064	0.14
Seaboard Coast Line Railroad	---	10,078	0.00	10	7,423	1.35	2	8,660	0.23
Southern Railway	---	8,974	0.00	3	6,604	0.45	5	6,974	0.72
SUBTOTAL, SOUTHERN DISTRICT:	1	31,795	0.03	49	27,343	1.79	21	31,842	0.66
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	1	15,990	0.06	7	12,490	0.56	3	14,097	0.21
Burlington Northern Inc	4	23,011	0.17	44	22,583	1.95	29	22,167	1.31
Chicago and Northwestern Trans. Company	---	6,823	0.00	30	7,169	4.18	13	6,235	2.09
Chicago, Milw., St. Paul & Pacific Railroad	4	3,580	1.12	22	3,520	6.25	3	2,665	1.13
Colorado and Southern Railway	---	150	0.00	---	639	0.00	---	5	0.00
Denver and Rio Grande Western Railroad	---	1,750	0.00	3	1,710	1.75	---	1,833	0.00
Duluth, Missabe and Iron Range Railway	1	660	1.52	1	599	1.67	---	776	0.00
Fort Worth and Denver Railway	---	330	0.00	---	1,106	0.00	---	395	0.00
Kansas City Southern Railway	---	1,466	0.00	1	1,318	0.76	2	979	2.04
Louisiana and Arkansas Railway	---	---	B	3	---	B	---	---	B
Missouri-Kansas-Texas Railroad	---	1,531	0.00	6	1,507	3.98	---	1,004	0.00
Missouri Pacific Railroad	1	8,965	0.11	12	8,965	1.34	5	7,749	0.65
St. Louis Southwestern Railway	2	2,103	0.95	10	2,692	3.71	2	1,782	1.12
Soo Line Railroad	---	2,000	0.00	6	2,142	2.80	4	1,578	2.53
Southern Pacific Trans. Company	12	18,598	0.65	48	11,331	4.24	36	13,065	2.76
Union Pacific Railroad	2	15,081	0.13	3	9,936	0.30	8	11,039	0.72
Western Pacific Railroad	---	1,409	0.00	2	1,140	1.75	1	784	1.28
SUBTOTAL, WESTERN DISTRICT:	27	103,447	0.26	198	88,847	2.23	106	86,153	1.23
CLASS II & III RAILROADS									
SUBTOTAL, CLASS II & III:	14	---	C	26	---	C	8	---	C
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	51	221,126	0.23	502	173,766	2.89	273	191,371	1.43
Class II & III Railroads	14	---	C	26	---	C	8	---	C
TOTAL FOR ALL RAILROADS	65	221,126	0.29	528	173,766	3.04	281	191,371	1.47

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R11. (CONTINUED)

	V. Via. Transportation not train, engine, yard			VIb. Transportation Train and Engine			TOTAL		
	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs	Illness	Man Hrs (Thou)	Ill/Mil Man Hrs
CLASS I RAILROADS									
EASTERN DISTRICT									
National Railroad Passenger Corp. (Amtrak).	10	9,218	1.08	---	---	---	52	40,490	1.28
Baltimore and Ohio Railroad	---	2,634	0.00	20	9,490	2.11	45	29,340	1.53
Bessemer and Lake Erie Railroad	---	116	0.00	---	295	0.00	4	2,260	1.77
Boston and Maine Corp.	---	399	0.00	---	1,359	0.00	3	5,767	0.52
Chesapeake and Ohio Railway	2	2,946	0.68	18	8,582	2.10	38	36,352	1.05
Consolidated Rail Corp.	3	9,187	0.33	79	38,125	2.07	252	132,634	1.90
Delaware and Hudson Railway	---	139	0.00	2	1,014	1.97	6	3,410	1.76
Detroit, Toledo and Ironton Railroad	---	125	0.00	---	698	0.00	3	2,373	1.26
Elgin, Joliet and Eastern Railway	---	269	0.00	---	1,102	0.00	---	4,011	0.00
Grand Trunk Western Railroad	1	398	2.51	2	2,239	0.89	6	8,162	0.74
Long Island Railroad	---	774	0.00	10	2,941	3.40	129	12,698	10.16
Norfolk and Western Railway	---	2,389	0.00	3	10,457	0.29	26	40,212	0.65
Pittsburg and Lake Erie Railroad	---	160	0.00	---	682	0.00	5	3,649	1.37
Western Maryland Railway	---	83	0.00	2	860	2.33	7	2,159	3.24
SUBTOTAL, EASTERN DISTRICT:	16	28,837	0.55	136	77,844	1.75	576	323,517	1.78
SOUTHERN DISTRICT									
Alabama Great Southern Railroad	---	---	A	---	---	A	---	---	A
Central of Georgia Railroad	---	---	A	---	---	A	2	---	A
Cinn., N.O. & Texas Pacific Railway	---	---	A	---	---	A	---	---	A
Clinchfield Railroad	---	165	0.00	1	671	1.49	2	1,880	1.06
Florida East Coast Railway	---	116	0.00	---	618	0.00	---	2,548	0.00
Illinois Central Gulf Railroad	---	1,987	0.00	3	8,943	0.34	43	33,233	1.29
Louisville and Nashville Railroad	---	1,987	0.00	2	9,223	0.22	10	28,316	0.35
Seaboard Coast Line Railroad	1	2,793	0.36	2	10,849	0.18	15	39,803	0.38
Southern Railway	---	2,664	0.00	2	12,852	0.16	10	38,068	0.26
SUBTOTAL, SOUTHERN DISTRICT:	1	9,712	0.10	10	43,156	0.23	82	143,848	0.57
WESTERN DISTRICT									
Atchison, Topeka and Santa Fe Railway	1	3,138	0.32	1	15,970	0.06	13	61,685	0.21
Burlington Northern Inc.	1	6,999	0.14	18	25,262	0.71	96	100,022	0.96
Chicago and Northwestern Trans. Company	2	2,355	0.85	4	8,309	0.48	49	30,891	1.59
Chicago, Milw., St. Paul & Pacific Railroad	---	978	0.00	2	3,872	0.52	31	14,615	2.12
Colorado and Southern Railway	---	24	0.00	---	789	0.00	---	1,607	0.00
Denver and Rio Grande Western Railroad	---	466	0.00	---	2,053	0.00	3	7,812	0.38
Duluth, Missabe and Iron Range Railway	---	334	0.00	1	706	1.42	3	3,075	0.98
Fort Worth and Denver Railway	---	301	0.00	3	1,215	2.47	3	3,347	0.90
Kansas City Southern Railway	---	242	0.00	2	2,271	0.88	5	6,276	0.80
Louisiana and Arkansas Railway	---	---	B	---	---	B	3	---	B
Missouri-Kansas-Texas Railroad	---	344	0.00	---	2,196	0.00	6	6,582	0.91
Missouri Pacific Railroad	1	2,420	0.41	23	14,090	1.63	42	42,189	1.00
St. Louis Southwestern Railway	---	498	0.00	9	2,732	3.29	23	9,807	2.35
Soo Line Railroad	---	619	0.00	3	1,893	1.58	13	8,232	1.58
Southern Pacific Trans. Company	3	3,131	0.96	98	16,854	5.81	197	62,979	3.13
Union Pacific Railroad	---	2,645	0.00	12	9,710	1.24	25	48,411	0.52
Western Pacific Railroad	---	205	0.00	1	1,211	0.83	4	4,749	0.84
SUBTOTAL, WESTERN DISTRICT:	8	24,699	0.32	177	109,133	1.62	516	412,279	1.25
CLASS II & III RAILROADS SUBTOTAL, CLASS II & III:	6	---	C	18	---	C	72	69,560	1.04
RECAPITULATION ALL DISTRICTS									
Class I RAILROADS	25	63,248	0.40	323	230,133	1.40	1,174	879,644	1.33
Class II & III Railroads	6	---	C	18	---	C	72	69,560	1.04
TOTAL FOR ALL RAILROADS	31	63,248	0.49	341	230,133	1.48	1,246	949,204	1.31

NOTE: 'A' - manhours reported by Southern Railway
'B' - manhours reported by Kansas City Southern Railway
'C' - manhours not reported by job categories

TABLE R14. SUMMARY OF NONFATAL INJURIES TO EMPLOYEES ON DUTY BY RAILROAD

Railroad	Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
CLASS I RAILROADS							
Alabama Great Southern Railroad Co	45	16	14	2	314	29	29
Amtrak (National RR Passenger Corp)	2,053	1,484	1,467	17	13,916	88	569
Atchison, Topeka And Santa Fe Rwy Co	1,787	1,179	965	214	11,318	3,656	608
Baltimore And Ohio Railroad Co	1,581	1,089	636	453	8,612	4,832	492
Bessemer And Lake Erie Railroad Co	50	27	25	2	233	23	23
Boston And Maine Corporation	187	133	121	12	2,865	39	54
Burlington Northern Incorporated	3,768	2,324	2,267	57	21,201	710	1,444
Central Of Georgia Railroad Company	142	75	62	13	1,047	126	67
Chesapeake And Ohio Railway Company	1,539	1,201	748	453	9,354	3,982	338
Chicago And Northwestern Transportation Co	1,640	802	536	266	8,374	1,561	838
Chicago, Milw, St. Paul And Pacific RR Co	1,068	898	861	37	9,118	324	170
Cincinnati, New Orleans And Texas Pacific	62	31	22	9	464	39	31
Clinchfield Railroad Company	53	45	44	1	386	16	8
Colorado And Southern Railway Co	98	54	51	3	709	8	44
Consolidated Rail Corporation	6,748	4,535	4,158	377	125,800	4,304	2,213
Delaware And Hudson Railway	145	136	135	1	1,714	10	9
Denver And Rio Grande Western RR Co	180	111	111	---	1,671	---	69
Detroit, Toledo And Ironton RR Co	153	79	67	12	952	131	74
Duluth, Missabe And Iron Range Rwy Co	109	63	58	5	738	39	46
Elgin, Joliet And Eastern Railway Co	154	81	81	---	1,659	---	73
Florida East Coast Railway Co	27	16	4	12	32	141	11
Forth Worth And Denver Railroad Co	85	57	56	1	341	12	28
Grand Truck Western Railroad Co	482	296	243	53	5,601	925	186
Illinois Central Gulf Railroad Co	2,073	1,258	556	702	9,251	10,083	815
Kansas City Southern Railway Co	390	343	343	---	4,268	---	47
Long Island Railroad Company	1,234	1,166	1,166	---	14,337	30	68
Louisiana And Arkansas Rwy Company	135	124	124	---	1,494	---	11
Louisville And Nashville Railroad Co	1,333	823	415	408	4,892	3,674	510
Missouri Pacific Railroad Co	1,701	1,116	782	334	18,170	3,871	585
Missouri-Kansas-Texas Railroad Co	398	235	235	---	2,405	---	163
Norfolk And Western Railway Co	2,175	1,052	794	258	14,038	1,925	1,123
Pittsburg And Lake Erie Railroad Co	226	101	97	4	2,963	92	125
Seaboard Coast Line Railroad Co	1,600	1,127	397	730	4,907	6,357	473
Sooline Railroad Company	514	414	383	31	4,623	606	100
Southern Pacific Transportation Co	3,502	1,698	1,127	571	19,171	7,155	1,804
Southern Railway Company	1,184	645	364	281	6,680	2,607	539
St. Louis Southwestern Railway Co	571	245	155	90	2,677	1,169	326
Union Pacific Railroad Co	2,708	1,904	1,337	567	15,484	5,196	804
Western Maryland Railway Company	120	70	38	32	584	357	50
Western Pacific Railroad Company	274	202	202	---	2,855	---	72
TOTAL CLASS I RAILROADS	42,294	27,255	21,247	6,008	355,218	64,117	15,039
CLASS II RAILROADS							
Autotrain Corporation	17	2	2	---	5	---	15
Atlanta And West Point Railroad Co	25	19	19	---	167	6	6
Bangor And Aroostook Railroad Co	52	33	33	---	357	---	19
Canadian Pacific Lines In Maine	24	12	12	---	264	---	12
Central Vermont Railway Inc	12	7	7	---	155	---	5
Chicago And Illinois Midland Rwy Co	50	39	39	---	454	---	11
Chicago South Shore And South Bend RR	36	35	35	---	148	---	1
Colorado And Wyoming Railway Company	35	31	30	1	304	2	4
Detroit And Toledo Shore Line Railroad	13	13	11	2	185	51	---
Duluth, Winnipeg And Pacific Rwy Co	26	15	9	6	62	52	11
Georgia Railroad Lessee Organization	38	30	22	8	174	85	8
Georgia Southern And Florida Railway	49	19	16	3	216	14	30
Green Bay And Western Railroad	59	48	48	---	419	---	11
Illinois Terminal Railroad	87	71	68	3	1,616	3	16
Interstate Railroad Company	3	3	1	2	20	10	---
Lake Superior And Ishpeming Railroad Co	20	18	16	2	172	2	2
Maine Central Railroad Company	170	138	129	9	1,456	71	32
Michigan Interstate Railroad (Ann Arbor)	29	28	28	---	252	---	1
Monongahela Railway	8	5	5	---	31	---	3
Norfolk Southern Railway Company	12	5	4	1	52	15	7
Northwestern Pacific Railroad	19	7	2	5	66	81	12
Providence and Worcester Railroad Co	66	55	53	2	508	13	11
Richmond, Frederickburg And Potomac RR Co	150	92	92	---	1,693	---	58
Spokane International Railroad	10	9	9	---	277	13	1
Texas And Northern Railway Company	13	4	3	1	41	9	9
Texas, Mexican Railway Company	161	92	89	3	917	30	69
Toledo, Peoria And Western Railroad Co	36	23	22	1	272	50	13
TOTAL CLASS II RAILROADS	1,220	853	804	49	10,283	507	367
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS	42,294	27,255	21,247	6,008	355,218	64,117	15,039
CLASS II RAILROADS	1,220	853	804	49	10,283	507	367
CLASS III RAILROADS	3,078	1,701	1,543	158	19,034	2,360	1,377
TOTAL ALL RAILROADS	46,592	29,809	23,594	6,215	384,535	66,984	16,783

7. CASUALTIES: EMPLOYEES, TRESPASSERS, NONTRESPASSERS AND OTHERS

SUMMARY OF CASUALTIES

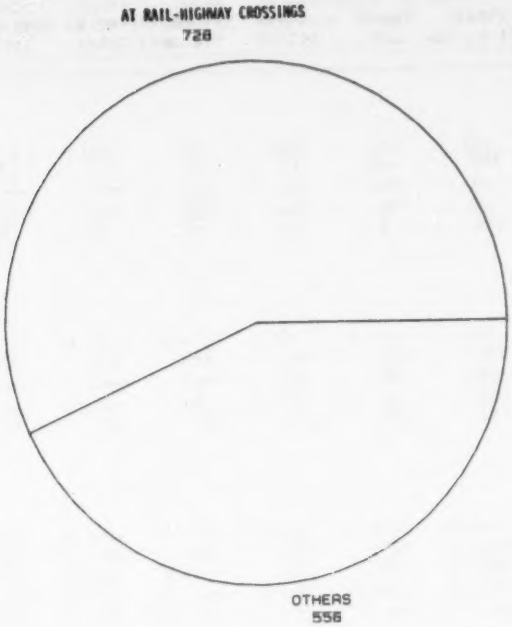

FIGURE 28. FATALITIES IN 1981: RAIL-HIGHWAY CROSSINGS AND OTHER

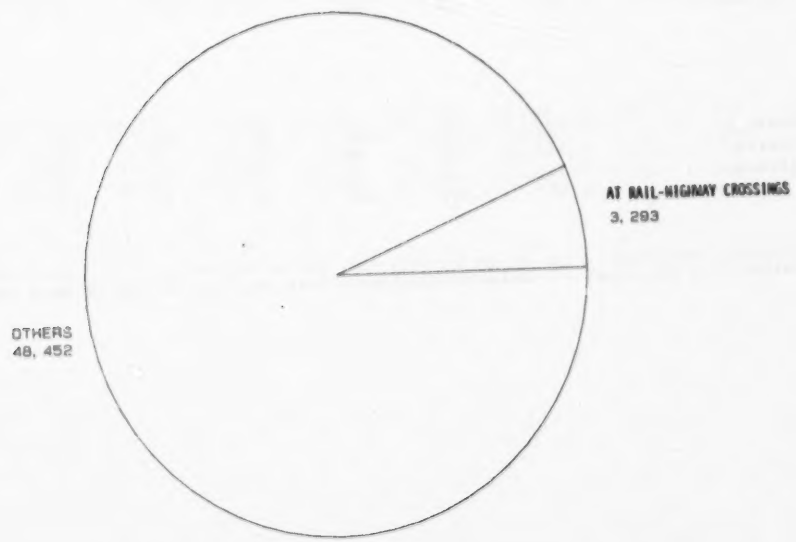

FIGURE 29. INJURIES IN 1981: RAIL-HIGHWAY CROSSINGS AND OTHER

TABLE S13. FATALITIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Fatal A/I	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Tre passe
TRAIN ACCIDENTS										
Class I Railroads	220	8	13	8	1	9	1	---	---	3
Class II Railroads	3	---	---	---	---	---	---	---	---	---
Class III Railroads	7	---	---	---	---	---	---	---	---	---
Total All Railroads	230	8	13	8	1	9	1	---	---	3
TRAIN INCIDENTS										
Class I Railroads	7,088	473	482	19	11	30	1	3	11	437
Class II Railroads	209	10	10	---	---	---	---	1	1	8
Class III Railroads	457	4	4	2	1	3	---	---	---	1
Total All Railroads	7,754	487	496	21	12	33	1	4	12	446
NONTRAIN INCIDENTS										
Class I Railroads	37,846	40	41	2	15	17	---	---	7	17
Class II Railroads	1,089	1	1	---	1	1	---	---	---	---
Class III Railroads	2,731	5	5	---	4	4	---	---	1	---
Total All Railroads	41,666	46	47	2	20	22	---	---	8	17
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads	2,749	567	700	1	---	1	---	---	587	11
Class II Railroads	72	11	18	---	---	---	---	---	14	
Class III Railroads	116	10	10	---	---	---	---	---	10	---
Total All Railroads	2,937	588	728	1	---	1	---	---	611	11
GRAND TOTAL										
Class I Railroads	47,903	1,088	1,236	30	27	57	2	3	605	5
Class II Railroads	1,373	22	29	---	1	1	---	1	15	
Class III Railroads	3,311	19	19	2	5	7	---	---	11	
Total All Railroads	52,587	1,129	1,284	32	33	65	2	4	631	5

NOTE: Column 1 is the count of accidents/incidents that resulted in one or more reportable casualties.

TABLE S14. INJURIES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Injury A/I	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS										
Class I Railroads.....	220	206	391	282	82	364	2	10	11	4
Class II Railroads.....	3	3	5	5	---	5	---	---	---	---
Class III Railroads.....	7	7	12	11	---	11	---	---	1	---
Total All Railroads.....	230	216	408	298	82	380	2	10	12	4
TRAIN INCIDENTS										
Class I Railroads.....	7,088	6,509	6,653	4,934	1,025	5,959	21	148	63	462
Class II Railroads.....	209	195	196	145	28	173	---	12	3	8
Class III Railroads.....	457	446	452	357	74	431	2	4	7	8
Total All Railroads.....	7,754	7,150	7,301	5,436	1,127	6,563	23	164	73	478
NONTRAIN INCIDENTS										
Class I Railroads.....	37,846	36,835	36,981	7,268	28,580	35,848	578	212	269	74
Class II Railroads.....	1,089	1,061	1,061	227	814	1,041	8	8	3	1
Class III Railroads.....	2,731	2,693	2,701	558	2,072	2,630	19	11	39	2
Total All Railroads.....	41,666	40,589	40,743	8,053	31,466	39,519	605	231	311	77
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,749	2,182	3,073	97	26	123	5	---	2,760	185
Class II Railroads.....	72	61	82	1	---	1	---	1	73	7
Class III Railroads.....	116	106	138	3	3	6	---	3	120	9
Total All Railroads.....	2,937	2,349	3,293	101	29	130	5	4	2,953	201
GRAND TOTAL										
Class I Railroads.....	47,903	45,732	47,098	12,581	29,713	42,294	606	370	3,103	725
Class II Railroads.....	1,373	1,320	1,344	378	842	1,220	8	21	79	16
Class III Railroads.....	3,311	3,252	3,303	929	2,149	3,078	21	18	167	19
Total All Railroads.....	52,587	50,304	51,745	13,888	32,704	46,592	635	409	3,349	760

NOTE: Column 1 is the count of accidents/incidents that resulted in one or more reportable casualties.

TABLE S15. ILLNESSES BY TYPE OF ACCIDENT/INCIDENT, TYPE OF RAILROAD, AND TYPE OF PERSON

Type Of Accident/Incident	Total A/I W. Cas	Illness A/I	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
TRAIN ACCIDENTS										
Class I Railroads.....	220	6	10	10	---	10	---	---	---	---
Class II Railroads.....	3	---	---	---	---	---	---	---	---	---
Class III Railroads.....	7	---	---	---	---	---	---	---	---	---
Total All Railroads.....	230	6	10	10	---	10	---	---	---	---
TRAIN INCIDENTS										
Class I Railroads.....	7,088	106	146	132	12	144	1	---	---	1
Class II Railroads.....	209	4	6	6	---	6	---	---	---	---
Class III Railroads.....	457	7	7	6	1	7	---	---	---	---
Total All Railroads.....	7,754	117	159	144	13	157	1	---	---	1
NONTRAIN INCIDENTS										
Class I Railroads.....	37,846	971	1,029	181	839	1,020	8	---	1	---
Class II Railroads.....	1,089	27	27	3	24	27	---	---	---	---
Class III Railroads.....	2,731	33	33	3	29	32	1	---	---	---
Total All Railroads.....	41,666	1,031	1,089	187	892	1,079	9	---	1	---
RAIL-HIGHWAY CROSSING (Excluded from above categories)										
Class I Railroads.....	2,749	---	---	---	---	---	---	---	---	---
Class II Railroads.....	72	---	---	---	---	---	---	---	---	---
Class III Railroads.....	116	---	---	---	---	---	---	---	---	---
Total All Railroads.....	2,937	---	---	---	---	---	---	---	---	---
GRAND TOTAL										
Class I Railroads.....	47,903	1,083	1,185	323	851	1,174	9	---	1	1
Class II Railroads.....	1,373	31	33	9	24	33	---	---	---	---
Class III Railroads.....	3,311	40	40	9	30	39	1	---	---	---
Total All Railroads.....	52,587	1,154	1,258	341	905	1,246	10	---	1	1

NOTE: Column 1 is the count of accidents/incidents that resulted in one or more reportable casualties.

TABLE S23. NATURE OF INJURIES BY TYPE OF ACCIDENT/INCIDENT

Class of Accident	Amputations						Fractures							
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Head or Face Bones	Torso	Other	Total
TRAIN ACCIDENTS														
Collisions	---	---	---	---	---	---	3	1	8	---	2	5	1	20
Derailments	---	---	---	---	---	---	4	2	1	---	2	7	---	16
Other Train Accidents	1	---	---	---	---	1	5	1	10	---	3	7	3	29
Total	1	---	---	---	---	1	12	4	19	---	7	19	4	63
TRAIN INCIDENTS														
Coupling or uncoupling	1	2	2	2	---	7	6	5	6	1	---	5	---	23
Operating locomotives	---	1	---	---	---	1	3	3	3	1	---	2	2	14
Operating rail motor car	1	---	---	---	---	1	9	1	15	2	1	6	1	35
Operating hand brakes	2	1	2	---	---	5	3	1	2	2	2	7	---	17
Operating switches	---	---	2	---	---	2	1	---	---	---	---	---	---	1
Coming in contact w/fxd obj	1	1	1	---	---	3	2	1	5	3	1	10	1	23
Getting on/off loco or cars	3	1	49	4	1	58	20	12	57	6	3	19	4	121
Accidents at Highway Grades	---	---	7	---	---	7	56	5	106	1	56	101	35	360
Other struck or run over	9	3	83	14	---	109	35	3	44	2	9	26	7	126
Flying or falling objects	---	---	---	---	---	---	---	4	6	4	---	---	1	15
Assaults	---	---	---	---	---	---	2	4	---	---	4	---	---	10
Miscellaneous	6	6	12	---	---	24	39	45	42	17	6	51	10	210
Total	23	15	158	20	1	217	176	84	286	39	82	227	61	955
NONTRAIN INCIDENTS														
Coupling incidents	---	4	---	---	---	4	18	36	9	15	5	10	---	93
Operating switches	---	---	---	---	---	---	19	34	7	24	2	4	2	92
Getting on/off locos or cars	---	---	---	---	---	---	39	14	74	3	1	20	7	158
Servicing or maintenance of equip	1	26	---	4	1	32	147	392	134	157	29	59	13	931
Maintenance of way and structures	2	53	---	4	1	60	173	585	295	258	50	73	22	1,456
Involving freight, baggage, etc	---	1	---	---	---	1	2	1	2	1	---	1	1	8
Involving windows,doors, etc	---	8	---	---	---	8	17	76	5	8	3	---	1	110
Involving passenger car doors	---	---	---	---	---	---	2	1	---	---	---	---	---	3
Stumbling,falling not on car/loco	1	3	2	1	---	7	115	35	159	19	9	46	15	398
Flying/falling objs, burns, etc	1	---	---	---	---	1	3	7	6	12	5	2	---	35
Assaults to persons	---	---	---	---	---	---	9	6	3	1	14	1	1	35
Miscellaneous	1	8	4	---	---	13	53	82	65	12	24	44	10	290
TOTAL	6	103	6	9	2	126	597	1,269	759	510	142	260	72	3,609
GRAND TOTAL	30	118	164	29	3	344	785	1,357	1,064	549	231	506	137	4,629

TABLE S23. (CONTINUED)

Class of Accident	Other Injuries: Bruise	Sprain or Strain	Cut or Lacer-ation	Electric Shock or Burn	Other Burns	Dislo-cation	Cinder, etc in Eye	Other	Total	Total Injuries	Total Injury Fatalities
TRAIN ACCIDENTS											
Collisions	51	48	15	---	---	2	---	14	130	150	5
Derailments	81	91	16	---	3	1	1	10	203	219	5
Other Train Accidents	56	34	35	---	6	---	---	22	153	183	53
Total	188	173	66	---	9	3	1	46	486	552	63
TRAIN INCIDENTS											
Coupling or uncoupling	96	179	54	---	3	1	8	9	350	380	4
Operating locomotives	135	170	69	4	6	6	328	30	748	763	---
Operating rail motor car	84	80	51	---	4	3	5	5	232	268	2
Operating hand brakes	59	72	14	---	---	2	2	2	151	173	---
Operating switches	11	26	6	---	---	---	4	2	49	52	---
Coming in contact w/fxd obj	64	24	26	---	---	---	3	4	121	147	2
Getting on/off loco or cars	372	937	152	---	2	15	3	33	1,514	1,693	22
Accidents at Highway Grades	822	224	901	---	---	20	2	547	2,516	2,883	635
Other struck or run over	137	42	131	2	---	5	---	79	396	631	458
Flying or falling objects	35	6	147	6	57	---	646	23	920	935	1
Assaults	46	14	84	---	---	---	39	21	204	214	2
Miscellaneous	817	787	273	---	7	8	9	72	1,973	2,207	31
Total	2,678	2,561	1,908	12	79	60	1,049	827	9,174	10,346	1,157
NONTRAIN INCIDENTS											
Coupling incidents	311	680	157	---	6	7	32	48	1,241	1,338	---
Operating switches	185	1,306	44	---	2	6	17	48	1,608	1,700	---
Getting on/off locos or cars	432	1,110	145	1	2	23	3	29	1,745	1,903	1
Servicing or maintenance of equip	2,124	4,158	2,065	111	499	45	1,098	453	10,553	11,516	3
Maintenance of way and structures	2,791	5,634	2,733	43	265	102	814	696	13,078	14,594	12
Involving freight, baggage, etc	29	108	23	---	---	1	4	7	172	181	---
Involving windows, doors, etc	202	211	209	---	1	6	3	17	649	767	1
Involving passenger car doors	9	2	3	---	---	---	---	2	16	19	---
Stumbling, falling not on car/loco	762	1,895	330	---	3	37	3	76	3,106	3,511	4
Flying/falling objs, burns, etc	78	28	96	38	74	1	577	33	925	961	8
Assaults to persons	101	43	73	---	2	2	2	30	253	288	4
Miscellaneous	766	1,585	598	5	27	36	127	622	3,766	4,069	31
TOTAL	7,790	16,760	6,476	198	881	266	2,680	2,061	37,112	40,847	64
GRAND TOTAL	10,656	19,494	8,450	210	969	329	3,730	2,934	46,772	51,745	1,284

TABLE S24. NATURE OF INJURIES BY TYPE OF PERSON

Class of Person	Amputations						Fractures							
	Arm or Hand	Finger	Leg or Foot	Toe	Other Part	Total	Arm or Hand	Finger	Leg or Foot	Toe	Head or Face	Torso	Other	Total
EMPLOYEES ON DUTY														
YARD SERVICE:														
Engineers and Motormen.	---	1	---	---	---	1	2	12	12	2	---	6	1	35
Firemen and Helpers....	---	---	---	---	---	---	2	2	2	1	---	1	---	8
Conductors and Foremen.	---	2	1	---	---	3	17	16	11	8	2	13	4	73
Brakemen and Helpers...	1	6	10	1	---	18	65	71	57	29	6	41	5	274
FREIGHT SERVICE:														
Engineers and Motormen.	---	3	---	---	---	3	13	12	20	1	2	9	3	60
Firemen and Helpers....	---	---	---	---	---	---	3	5	7	8	---	---	---	23
Conductors.....	1	4	2	---	---	7	23	20	33	6	6	35	9	132
Brakemen and Flagmen...	3	2	9	2	---	16	55	54	69	15	10	42	8	253
PASSENGER SERVICE:														
Engineers and Motormen.	---	---	---	---	---	---	1	3	1	---	1	---	---	6
Firemen and Helpers....	---	---	---	---	---	---	---	1	---	---	---	---	---	1
Conductors.....	---	---	1	---	---	1	6	3	3	4	---	2	---	18
Baggagemen.....	---	---	---	---	---	---	2	---	---	---	---	---	---	2
Brakemen and Flagmen...	---	---	---	---	---	---	1	2	---	2	2	2	---	9
HOSTLERS.....	---	---	---	---	---	---	2	6	2	---	1	1	---	12
OTHER EMPLOYEES.....	6	96	4	8	2	116	428	1,122	595	457	113	200	57	2,972
SUMMARY														
Total employees on duty..	11	114	27	11	2	165	620	1,329	812	533	143	354	87	3,878
Employees not on duty....	---	---	1	1	---	2	25	4	27	8	5	6	3	78
Passengers.....	1	---	2	---	---	3	19	7	25	1	3	5	3	63
Nontrespassers.....	3	1	10	---	---	14	77	16	146	5	67	118	35	464
Trespassers.....	15	3	124	17	1	160	44	1	54	2	13	23	9	146
GRAND TOTAL.....	30	118	164	29	3	344	785	1,357	1,064	549	231	506	137	4,629

TABLE S24. (CONTINUED)

Class of Person	Other Injuries									Total Injuries	Total Injury Fatalities
	Bruise	Sprain or Strain	Cut or Lacer-ation	Electric Shock or Burn	Other Burns	Dislo-cation	Cinder etc in eye	Other	Total		
EMPLOYEES ON DUTY											
YARD SERVICE:											
Engineers and Motormen.	109	233	64	2	1	4	110	34	557	593	1
Firemen and Helpers....	21	49	19	---	1	---	33	4	127	135	---
Conductors and Foremen.	231	567	129	---	18	4	114	39	1,102	1,178	2
Brakemen and Helpers...	977	2,398	383	1	34	22	489	138	4,442	4,734	8
FREIGHT SERVICE:											
Engineers and Motormen.	138	308	93	3	15	8	172	42	783	846	1
Firemen and Helpers....	41	86	26	1	4	1	53	12	224	247	1
Conductors.....	323	557	167	---	11	14	121	55	1,248	1,387	6
Brakemen and Flagmen...	804	1,826	432	2	45	27	380	143	3,659	3,928	11
PASSENGER SERVICE:											
Engineers and Motormen.	34	51	15	---	---	---	25	7	132	138	1
Firemen and Helpers....	21	20	7	1	---	---	11	4	64	65	---
Conductors.....	61	100	20	1	2	---	34	14	232	251	---
Baggagemen.....	4	1	5	---	---	---	1	2	13	15	1
Brakemen and Flagmen...	46	65	21	2	3	---	19	5	161	170	---
HOSTLERS.....	59	167	23	---	9	3	31	8	300	312	---
OTHER EMPLOYEES.....	6,497	12,412	3,647	164	809	195	2,092	1,689	29,505	32,593	33
SUMMARY											
Total employees on duty..	9,366	18,840	7,053	179	932	278	3,685	2,196	42,549	46,592	65
Employees not on duty....	113	270	87	1	12	15	24	33	555	635	2
Passengers.....	139	75	102	---	2	4	8	13	343	409	4
Nontrespassers.....	934	285	1,020	2	3	26	13	588	2,871	3,349	631
Trespassers.....	104	24	188	28	---	6	---	104	454	760	582
GRAND TOTAL.....	10,636	19,494	8,450	210	969	329	3,730	2,934	46,772	51,745	1,284

EMPLOYEE CASUALTIES

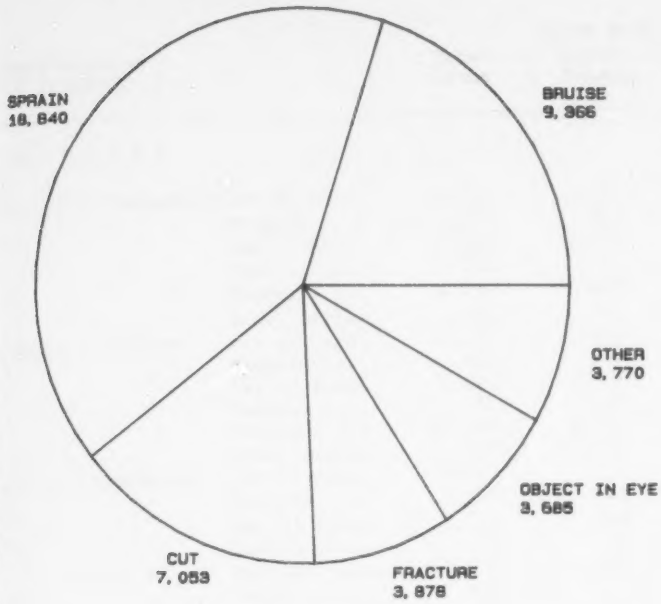

FIGURE 30.

INJURIES TO EMPLOYEES ON DUTY

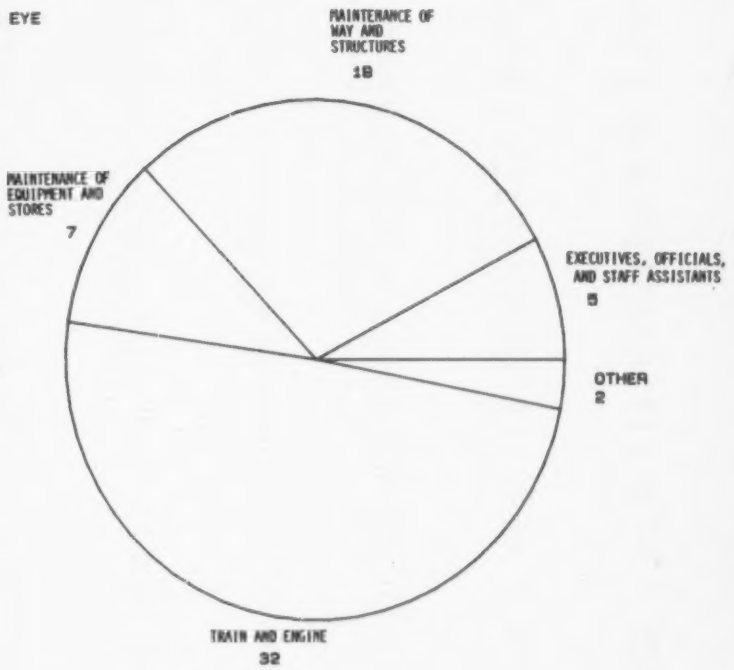

FIGURE 31A.

FATALITIES BY EMPLOYEE JOB CATEGORY

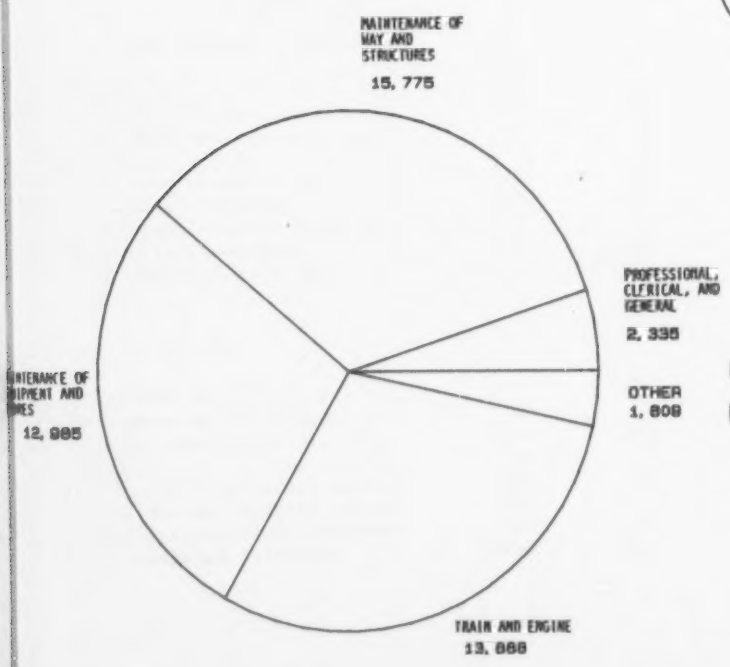

FIGURE 31B.

INJURIES BY EMPLOYEE JOB CATEGORY

TABLE S27. EMPLOYEE ON DUTY CASUALTIES BY TYPE OF CASUALTY

Type/Location Of Casualty	Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
INJURIES							
Bruise - Contusion--Arm or hand.	1,770	1,155	824	331	9,432	2,447	615
Fingers.....	1,276	591	370	221	3,192	1,532	685
Leg or foot.	3,202	2,365	1,802	563	20,554	4,610	837
Toes.....	285	194	139	55	918	361	91
Torso.....	1,721	1,287	1,062	225	17,516	2,146	434
Other parts.	1,112	766	652	114	8,261	944	346
Sprain - Strain-- Arm or hand.	2,172	1,558	1,141	417	16,393	3,977	614
Fingers.....	322	188	132	56	1,535	556	134
Leg or foot.	4,825	4,072	3,310	762	54,423	9,047	753
Toes.....	42	30	25	5	290	49	12
Torso.....	10,566	8,164	6,660	1,504	111,819	16,367	2,402
Other parts.	913	663	563	100	6,984	958	250
Cut or Laceration-- Arm or hand.	1,391	514	347	167	3,600	1,370	877
Fingers.....	2,220	792	523	269	5,559	2,623	1,428
Leg or foot.	942	469	379	90	3,841	798	473
Toes.....	43	35	24	11	219	49	8
Head or Face	2,272	622	527	95	5,473	564	1,650
Torso.....	112	61	44	17	573	159	51
Other parts.	73	39	37	2	453	24	34
Electrical burn or shock.....	179	107	98	9	1,548	34	72
Other burns.....	952	467	373	94	4,237	745	485
Dislocation.....	278	224	183	41	4,573	774	54
Fracture-- Arm or hand.	620	507	393	114	12,126	3,605	113
Fingers.....	1,329	748	440	308	8,786	5,081	581
Leg or foot.	812	746	667	79	27,202	2,665	66
Toes.....	533	378	271	107	5,106	1,702	155
Head or Face	143	94	90	4	3,024	93	49
Torso.....	354	298	270	28	11,617	543	56
Other parts.	87	67	58	9	1,713	236	20
Amputation-- Arm or hand.	11	10	9	1	1,456	3	1
Fingers.....	114	96	80	16	2,367	449	18
Leg or foot.	27	27	27	---	3,760	60	---
Toes.....	11	11	11	---	482	---	---
Other parts.	2	2	2	---	23	---	---
Dust or other object in eye.....	3,685	1,303	1,036	267	4,192	818	2,382
Hernia.....	298	286	271	15	9,964	457	12
Concussion.....	120	101	95	6	2,375	97	19
Nervous shock.....	33	26	25	1	379	1	7
Internal injuries.....	44	37	35	2	1,041	91	7
Loss of eye.....	2	2	2	---	97	---	---
Puncture type wound.....	520	240	195	45	1,731	335	280
Dental related injuries.....	188	23	17	6	111	25	165
Skin reaction (one-time exposure	93	44	40	4	277	18	49
Not otherwise classified.....	898	400	345	55	5,313	571	498
Total nonfatal injuries.....	46,592	29,809	23,594	6,215	384,535	66,984	16,783
ILLNESSES							
Skin diseases or disorders.....	477	213	193	20	1,198	91	264
Dust diseases of the lungs.....	6	2	1	1	7	9	4
Respiratory conditions.....	316	176	162	14	1,561	73	140
Poisoning.....	35	13	13	---	91	---	22
Disorders due to physical agents	225	102	83	19	557	53	123
Disorders due to repeated trauma	37	23	22	1	403	34	14
All other occupational illnesses	150	86	82	4	493	17	64
Total nonfatal illnesses.....	1,246	615	556	59	4,310	277	631

TABLE S25. EMPLOYEE ON DUTY CASUALTIES BY JOB CATEGORY

Class of Person	Killed	Injured	Illness
I.--EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS			
EXECUTIVE, GENERAL OFFICERS, AND ASSISTANTS	1	17	---
DIVISION OFFICERS, ASSISTANTS, AND STAFF ASSISTANT	---	97	4
Subtotal	1	114	4
II.--PROFESSIONAL, CLERICAL, AND GENERAL			
PROFESSIONAL AND SUBPROFESSIONAL ASSISTANTS	---	63	7
SUPERVISORY OR CHIEF CLERKS(MAJOR DEPARTMENTS)	---	26	1
CHIEF CLERKS(MINOR DEPARTMENTS)AND ASSISTANTS	---	24	---
CLERKS AND CLERICAL SPECIALISTS	---	113	2
CLERKS	2	813	11
MECHANICAL DEVICE OPERATORS (OFFICE)	---	25	---
STENOGRAPHERS AND SECRETARIES	---	13	---
STENOGRAPHERS AND TYPISTS	---	19	---
STOREKEEPERS, SALES AGENTS, AND BUYERS	---	28	---
TICKET AGENTS AND ASSISTANT TICKET AGENTS	---	52	---
TRAVELING AUDITORS OR ACCOUNTANTS	---	1	---
TELEPHONE SWITCHBOARD OPERATORS AND OFFICE ASSIST	---	5	---
MESSENGERS AND OFFICE BOYS	---	12	---
ELEVATOR OPERATORS AND OTHER OFFICE ATTENDANTS	---	10	---
LIEUTENANTS AND SERGEANTS OF POLICE	---	62	1
PATROLMEN AND WATCHMEN	---	354	11
TRAFFIC AND VARIOUS OTHER AGENTS, INSPECTORS, ETC.	---	14	1
CLAIM AGENTS OR INVESTIGATORS	---	11	---
FREIGHT CLAIM AGENTS OR INVESTIGATORS	---	6	---
CHIEF CLAIM AGENTS OR INVESTIGATORS	---	1	---
MISCELLANEOUS TRADE WORKERS(OTHER THAN PLUMBERS)	---	88	8
MOTOR VECHICLE AND MOTOR CAR OPERATORS	3	472	13
TEAMSTERS AND STABLEMEN	---	1	---
JANITORS AND CLEANERS	---	122	6
Subtotal	5	2,335	61
III.--MAINTENANCE OF WAY AND STRUCTURE			
ROADMASTERS, GENERAL FOREMAN, AND ASSISTANTS	1	146	6
MAINTENANCE OF WAY AND SCALE INSPECTORS	---	50	---
BRIDGE AND BUILDING GANG FOREMEN(SKILLED LABOR)	1	151	5
BRIDGE AND BUILDING CARPENTERS	1	878	36
BRIDGE AND BUILDING IRONWORKERS	2	141	3
BRIDGE AND BUILDING PAINTERS	1	108	2
MASONS, BRICKLAYERS, PLASTERERS, AND PLUMBERS	1	498	18
MAINTENANCE OF WAY/STRUCTURE HELPERS & ASSISTANTS	2	518	6
PORTABLE STEAM EQUIPMENT OPERATORS	1	1,340	37
PORTABLE STEAM EQUIPMENT OPERATOR HELPERS	1	31	1
PUMPING EQUIPMENT OPERATORS	---	5	---
GANG FOREMEN(EXTRA GANG AND WORK-TRAIN LABORERS)	---	203	2
GANG FOREMEN(BRIDGE AND BUILDING, SIGNAL ETC)	1	32	2
GANG OR SECTION FOREMEN	1	962	20
EXTRA GANG MEN	1	2,999	94
SECTION MEN	3	5,912	183
MAINTENANCE OF WAY LABORERS(OTHER THAN TRACK/RDWY)	1	178	4
GENERAL & ASS'T GEN FOREMEN/INSPECTORS (SIGNAL,ETC.	---	51	6
GANG FOREMEN(SIGNAL AND TELEGRAPH SKILLED TRADES)	---	60	---
SIGNALMEN AND SIGNAL MAINTAINERS	1	799	52
LINEMEN AND GROUNDMEN	---	320	27
ASSISTANT SIGNALMEN AND ASSISTANT SIGNAL MAINT	---	317	19
SIGNALMEN AND SIGNAL MAINTAINER HELPERS	---	76	5
Subtotal	19	15,775	523
IV.--MAINTENANCE OF EQUIPMENT AND STORES			
GENERAL, ASSISTANT GENERAL, AND DEPARTMENT FOREMEN.	---	137	---
GENERAL AND ASSISTANT GENERAL FOREMEN(STORES)	---	14	---
EQUIPMENT, SHOP, ELEC, MATERIAL, & SUPPLIES INSPTR.	1	120	1
GANG FOREMEN AND GANG LEADERS(SKILLED LABOR)	---	198	5
BLACKSMITHS	---	110	2
BOILERMAKERS	---	237	5
CARMEN (A AND B)	2	3,055	56
CARMEN (C AND D)	1	2,483	43
ELECTRICAL WORKERS (A)	1	1,145	45
ELECTRICAL WORKERS (B)	---	50	---
ELECTRICAL WORKERS (C)	---	17	1
MACHINISTS	---	2,294	50
MOLDERS	---	14	---
SHEET-METAL WORKERS	---	509	14
SKILLED TRADES HELPERS(M OF E AND STORES)	---	287	5
HELPER APPRENTICES(M OF E AND STORES)	---	44	---
REGULAR APPRENTICES(M OF E AND STORES)	---	322	3
COACH CLEANERS	---	301	12
GANG FOREMEN(SHOPS, ENGINE HOUSES, & POWER PLANTS)	---	40	---
GANG FOREMEN(STORES AND ICE, RECLAMATION, ETC)	---	21	---

TABLE S25. (CONTINUED)

Class of Person	Killed	Injured	Illness
IV.--(CONT.)			
CLASSIFIED LABORERS(SHOPS, ENGINE HOUSES, ETC).....	---	411	4
GENERAL LABORERS(SHOP, ENGINE HOUSES, ETC).....	1	811	27
GENERAL LABORERS(STORES AND ICE, RECLAMATION, ETC).	1	341	7
STATIONARY ENGINEERS(STEAM).....	---	14	---
STATIONARY FIREMEN, OILERS, COAL PASSERS, AND ETC..	---	10	1
Subtotal.....	7	12,985	281
V.--TRANSPORTATION			
CHIEF TRAIN DISPATCHERS.....	---	3	---
TRAIN DISPATCHERS.....	---	8	1
TRAIN DIRECTORS.....	---	2	---
STATION AGENTS(SUPERVISORY, MAJOR STATIONS).....	---	5	---
STATION AGENTS(SMALLER STATIONS, NONTELEGRAPHERS)..	---	16	---
STATION AGENTS(TELEGRAPHERS AND TELEPHONERS).....	---	15	---
CHIEF TELEGRAPHERS AND TELEPHONERS OR WIRE CHIEFS..	---	2	---
CLERK-TELEGRAPHERS AND CLERK-TELEPHONERS.....	---	45	1
TELEGRAPHERS, TELEPHONERS, AND TOWERMEN.....	---	73	---
STATIONMASTERS AND ASSISTANTS.....	---	7	---
SUPERVISING BAGGAGE AGENTS.....	---	---	---
BAGGAGE AGENTS AND ASSISTANTS.....	---	11	---
BAGGAGE, PARCEL ROOM, AND STATION ATTENDANTS.....	---	58	2
GENERAL FOREMEN(FREIGHT STATIONS, WAREHOUSES, ETC).	---	2	---
ASST. GENERAL FOREMAN(FRT STATIONS, WAREHOUSES)....	---	1	---
GANG FOREMEN(FREIGHT STATION, WAREHOUSE, ETC).....	---	5	1
CALLERS, LOADERS, SEALERS, SCALERS, ETC.....	---	14	1
TRUCKERS(STATIONS, WAREHOUSES, AND PLATFORMS).....	---	30	---
LABORERS(COAL AND ORE DOCKS AND GRAIN ELEVATORS)...	---	67	3
COMMON LABORERS(STATIONS, WAREHOUSES, PLATFORMS)...	---	130	5
STEWARDS, RESTAURANT & LODGING-HOUSE MANAGERS, ETC.	---	57	1
CHEFS AND COOKS(RESTAURANTS OR DINING CARS).....	---	57	4
WAITERS, CAMP COOKS, KITCHEN HELPERS, ETC.....	---	101	2
OFFICERS, WORKERS, ATT'ANTS ON BARGES, LAUNCHES....	---	39	---
TRANSPORTATION AND DINING-SERVICE INSPECTORS.....	---	1	---
PARLOR AND SLEEPING CARD CONDUCTORS.....	---	1	---
TRAIN ATTENDANTS.....	---	257	4
BRIDGE OPERATORS AND HELPERS.....	---	16	1
CROSSING AND BRIDGE FLAGMEN AND GATEMEN.....	---	3	---
FOREMEN(LAUNDRY)AND LAUNDRY WORKERS.....	---	1	---
Subtotal.....	---	1,027	26
VI.--(a)TRANSPORTATION			
YARDMASTERS.....	1	93	3
ASSISTANT YARDMASTERS.....	---	1	---
SWITCH TENDERS.....	---	62	---
OUTSIDE HOSTLERS.....	---	181	1
INSIDE HOSTLERS.....	---	69	1
OUTSIDE HOSTLERS HELPERS.....	---	62	---
Subtotal.....	1	468	5
VI.--(b)TRANSPORTATION(train and engine)			
ROAD PASSENGER CONDUCTORS.....	---	251	7
ASSIST ROAD PASSENGER CONDUCTORS & TICKET COLLECTO.	---	201	10
ROAD FREIGHT CONDUCTORS(THROUGH FREIGHT).....	2	768	12
ROAD FREIGHT CONDUCTORS(LOCAL AND WAY FREIGHT).....	4	619	11
ROAD PASSENGER BAGGAGEMEN.....	1	15	---
ROAD PASSENGER BRAKEMEN AND FLAGEMEN.....	---	170	2
ROAD FREIGHT BRAKEMEN AND FLAGMEN(THROUGH FREIGHT).	5	1,968	45
ROAD FREIGHT BRAKEMEN AND FLAGMEN(LOCAL & WAY FRGH.	6	1,960	32
YARD CONDUCTORS AND YARD FOREMEN.....	2	1,178	18
YARD BRAKEMEN AND YARD HELPERS.....	8	4,734	93
ROAD PASSENGER ENGINEERS AND MOTORMEN.....	1	138	24
ROAD FREIGHT ENGINEERS AND MOTORMEN(THROUGH FRGHT).	1	510	18
ROAD FREIGHT ENGINEERS & MOTORMEN(LOCAL & WAY FRGH.	---	336	16
YARD ENGINEERS AND MOTORMEN.....	1	593	28
ROAD PASSENGER FIREMEN AND HELPERS.....	---	65	11
ROAD FREIGHT FIREMEN AND HELPERS(THROUGH FREIGHT)..	1	178	6
ROAD FREIGHT FIREMEN & HELPERS(LOCAL & WAY FRGHT)..	---	69	3
YARD FIREMEN AND HELPERS.....	---	135	5
Subtotal.....	32	13,888	341
TOTAL.....	65	46,592	1,246

TABLE S26. EMPLOYEE ON DUTY CASUALTIES FOR CLASS I LINE HAUL RAILROADS BY JOB CATEGORY

Class of Person	Class I Railroads (Line-Haul)														
	Total			Man Hours	Casualties per mill man-hrs			Train Accidents			Train Incidents			Nontrain Incidents	
	Kld	Inj	Ill	(000)	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill
I.--EXECUTIVES, OFFICIALS, AND STAFF ASSISTANTS																
EXECUTIVE, GENERAL OFFICERS, AND ASSISTANTS	1	10	---	12,276	.08	.81	---	1	2	---	---	1	---	---	7	---
DIVISION OFFICERS, ASSISTANTS, AND STAFF ASSISTANT.	---	84	3	25,521	---	3.29	.12	---	3	---	---	4	---	---	77	3
Subtotal	1	94	3	37,797	.03	2.49	.08	1	5	---	---	5	---	---	84	3
II.--PROFESSIONAL, CLERICAL, AND GENERAL																
PROFESSIONAL AND SUBPROFESSIONAL ASSISTANTS	---	61	6	20,844	---	2.93	.29	---	---	---	---	---	---	---	61	6
SUPERVISORY OR CHIEF CLERKS(MAJOR DEPARTMENTS)	---	22	1	4,266	---	5.16	.23	---	---	---	---	---	---	---	22	1
CHIEF CLERKS(MINOR DEPARTMENTS)AND ASSISTANTS	---	22	---	14,118	---	1.56	---	---	---	---	---	---	---	---	22	---
CLERKS AND CLERICAL SPECIALISTS	---	106	2	13,263	---	7.99	.15	---	---	---	---	3	---	---	103	2
CLERKS	2	751	9	74,497	.03	10.08	.12	---	---	---	1	15	2	1	736	7
MECHANICAL DEVICE OPERATORS (OFFICE)	---	23	---	6,429	---	3.58	---	---	---	---	---	---	---	---	23	---
STENOGRAPHERS AND SECRETARIES	---	12	---	5,310	---	2.26	---	---	---	---	---	---	---	---	12	---
STENOGRAPHERS AND TYPISTS	---	17	---	7,474	---	2.27	---	---	---	---	---	---	---	---	17	---
STOREKEEPERS, SALES AGENTS, AND BUYERS	---	27	---	2,973	---	9.08	---	---	---	---	---	---	---	---	27	---
TICKET AGENTS AND ASSISTANT TICKET AGENTS	---	50	---	276	---	181.16	---	---	---	---	---	2	---	---	48	---
TRAVELING AUDITORS OR ACCOUNTANTS	---	1	---	1,085	---	.92	---	---	---	---	---	---	---	---	1	---
TELEPHONE SWITCHBOARD OPERATORS AND OFFICE ASSIST.	---	5	---	1,049	---	4.77	---	---	---	---	---	---	---	---	5	---
MESSENGERS AND OFFICE BOYS	---	10	---	819	---	12.21	---	---	---	---	---	---	---	---	10	---
ELEVATOR OPERATORS AND OTHER OFFICE ATTENDANTS	---	10	---	131	---	76.34	---	---	---	---	---	---	---	---	10	---
LIEUTENANTS AND SERGEANTS OF POLICE	---	58	1	2,350	---	24.68	.43	---	---	---	---	3	---	---	55	1
PATROLMEN AND WATCHMEN	---	333	11	4,505	---	73.92	2.44	---	1	---	---	8	---	---	324	11
TRAFFIC AND VARIOUS OTHER AGENTS, INSPECTORS, ETC.	---	14	1	8,336	---	1.68	.12	---	---	---	---	---	---	---	14	1
CLAIM AGENTS OR INVESTIGATORS	---	9	---	1,288	---	6.99	---	---	---	---	---	---	---	---	9	---
FREIGHT CLAIM AGENTS OR INVESTIGATORS	---	6	---	691	---	8.68	---	---	---	---	---	---	---	---	6	---
CHIEF CLAIM AGENTS OR INVESTIGATORS	---	---	---	380	---	---	---	---	---	---	---	---	---	---	---	---
MISCELLANEOUS TRADE WORKERS(OTHER THAN PLUMBERS)	---	30	---	173	---	173.41	---	---	---	---	---	---	---	---	30	---
MOTOR VECHICLE AND MOTOR CAR OPERATORS	3	457	12	9,732	.31	46.96	1.23	---	---	---	1	5	---	2	452	12
TEAMSTERS AND STABLEMEN	---	1	---	351	---	2.85	---	---	---	---	---	---	---	---	1	---
JANITORS AND CLEANERS	---	111	5	2,989	---	37.14	1.67	---	---	---	---	2	---	---	109	5
Subtotal	5	2,136	48	183,329	.03	11.65	.26	---	1	---	2	38	2	3	2,097	46
III.--MAINTENANCE OF WAY AND STRUCTURE																
ROADMASTERS, GENERAL FOREMAN, AND ASSISTANTS	---	126	6	6,691	---	18.83	.90	---	---	---	---	7	---	---	119	6
MAINTENANCE OF WAY AND SCALE INSPECTORS	---	49	---	2,860	---	17.13	---	---	---	---	---	8	---	---	41	---
BRIDGE AND BUILDING GANG FOREMEN(SKILLED LABOR)	1	131	4	3,815	.26	34.34	1.05	---	---	---	1	4	---	---	127	4
BRIDGE AND BUILDING CARPENTERS	1	795	35	8,072	.12	98.49	4.34	---	---	---	---	22	---	1	773	35
BRIDGE AND BUILDING IRONWORKERS	---	105	3	867	---	121.11	3.46	---	---	---	---	1	---	---	104	3
BRIDGE AND BUILDING PAINTERS	1	64	2	617	1.62	103.73	3.24	---	---	---	---	3	---	1	61	2
MASONS, BRICKLAYERS, PLASTERERS, AND PLUMBERS	1	490	18	6,116	.16	80.12	2.94	---	---	---	1	9	---	---	481	18
MAINTENANCE OF WAY/STRUCTURE HELPERS & ASSISTANTS	2	471	6	4,877	.41	96.58	1.23	---	1	---	1	15	---	1	455	6
PORTABLE STEAM EQUIPMENT OPERATORS	1	1,324	37	25,687	.04	51.54	1.44	---	8	---	---	91	1	1	1,225	36
PORTABLE STEAM EQUIPMENT OPERATOR HELPERS	1	30	1	534	1.87	56.18	1.87	---	---	---	---	3	---	1	27	1
PUMPING EQUIPMENT OPERATORS	---	4	---	69	---	57.97	---	---	---	---	---	---	---	---	4	---
GANG FOREMEN(EXTRA GANG AND WORK-TRAIN LABORERS)	---	194	2	7,073	---	27.43	.28	---	1	---	---	12	---	---	181	2
GANG FOREMEN(BRIDGE AND BUILDING, SIGNAL ETC)	---	29	2	107	---	271.03	18.69	---	---	---	---	2	---	---	27	2
GANG OR SECTION FOREMEN	1	843	20	15,217	.07	55.40	1.31	---	4	---	---	44	---	1	795	20
EXTRA GANG MEN	1	2,873	93	21,746	.05	132.12	4.28	---	3	---	1	76	---	---	2,794	93
SECTION MEN	3	4,908	161	39,216	.08	125.15	4.11	---	6	---	2	163	---	1	4,739	161
MAINTENANCE OF WAY LABORERS(OTHER THAN TRACK/RDWY)	1	145	4	356	2.81	407.30	11.24	---	4	---	---	3	---	1	138	4
GENERAL & ASS'T GEN FOREMEN/INSPECTORS (SIGNAL,ETC.	---	49	6	3,360	---	14.58	1.79	---	---	---	---	5	---	---	44	6
GANG FOREMEN(SIGNAL AND TELEGRAPH SKILLED TRADES)	---	57	---	3,503	---	16.27	---	---	---	---	---	2	---	---	55	---
SIGNALMEN AND SIGNAL MAINTAINERS	---	758	51	14,853	---	51.03	3.43	---	---	---	---	16	---	---	742	51
LINEMEN AND GROUNDMEN	---	317	27	4,489	---	70.62	6.01	---	---	---	---	3	---	---	314	27
ASSISTANT SIGNALMEN AND ASSISTANT SIGNAL MAINT.	---	311	19	3,178	---	97.86	5.98	---	---	---	---	2	---	---	309	19
SIGNALMEN AND SIGNAL MAINTAINER HELPERS	---	64	5	464	---	137.93	10.78	---	---	---	---	1	---	---	63	5
Subtotal	14	14,137	502	173,767	.08	81.36	2.89	---	27	---	6	492	1	8	13,618	501

TABLE S26. CONTINUED

Class of Person	Class I Railroads (Line-Haul)														
	Total			Man Hours	Casualties per mill man-hrs			Train Accidents			Train Incidents			Nontrain Incidents		
	Kld	Inj	Ill	(000)	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill	Kld	Inj	Ill
IV.--MAINTENANCE OF EQUIPMENT AND STORES																
GENERAL, ASSISTANT GENERAL, AND DEPARTMENT FOREMEN.	---	117	---	11,387	---	10.27	---	---	---	---	---	4	---	---	113	---
GENERAL AND ASSISTANT GENERAL FOREMEN(STORES).....	---	14	---	281	---	49.82	---	---	---	---	---	---	---	---	14	---
EQUIPMENT, SHOP, ELEC, MATERIAL, & SUPPLIES INSPTR.	1	109	1	866	1.15	125.87	1.15	---	---	---	1	6	---	---	103	1
GANG FOREMEN AND GANG LEADERS(SKILLED LABOR).....	---	189	5	11,762	---	16.07	.43	---	---	---	---	4	---	---	185	5
BLACKSMITHS.....	---	108	2	1,761	---	61.33	1.14	---	---	---	---	2	---	---	106	2
BOILERMAKERS.....	---	229	5	2,838	---	80.69	1.76	---	---	---	---	3	---	---	226	5
CARMEN (A AND B).....	1	2,773	55	17,780	.06	155.96	3.09	---	---	---	---	47	---	1	2,726	55
CARMEN (C AND D).....	1	2,330	40	48,715	.02	47.83	.82	---	1	---	---	39	---	1	2,290	40
ELECTRICAL WORKERS (A).....	1	1,087	45	20,560	.05	52.87	2.19	---	1	---	1	19	1	---	1,067	44
ELECTRICAL WORKERS (B).....	---	49	---	1,482	---	33.06	---	---	---	---	---	1	---	---	48	---
ELECTRICAL WORKERS (C).....	---	17	1	339	---	50.15	2.95	---	---	---	---	---	---	---	17	1
MACHINISTS.....	---	2,129	48	31,415	---	67.77	1.53	---	---	---	---	22	1	---	2,107	47
MOLDERS.....	---	4	---	22	---	181.82	---	---	---	---	---	---	---	---	4	---
SHEET-METAL WORKERS.....	---	495	14	8,778	---	56.39	1.59	---	---	---	---	8	---	---	487	14
SKILLED TRADES HELPERS(M OF E AND STORES).....	---	255	4	3,844	---	66.34	1.04	---	---	---	---	6	---	---	249	4
HELPER APPRENTICES(M OF E AND STORES).....	---	28	---	422	---	66.35	---	---	---	---	---	---	---	---	28	---
REGULAR APPRENTICES(M OF E AND STORES).....	---	310	3	4,815	---	64.38	.62	---	---	---	---	2	---	---	308	3
COACH CLEANERS.....	---	270	11	3,811	---	70.85	2.89	---	---	---	---	11	---	---	259	11
GANG FOREMEN(SHOPS, ENGINE HOUSES, & POWER PLANTS).	---	38	---	576	---	65.97	---	---	---	---	---	3	---	---	35	---
GANG FOREMEN(STORES AND ICE, RECLAMATION, ETC).....	---	20	---	707	---	28.29	---	---	---	---	---	1	---	---	19	---
CLASSIFIED LABORERS(SHOPS, ENGINE HOUSES, ETC).....	---	362	4	7,352	---	49.24	.54	---	---	---	---	13	---	---	349	4
GENERAL LABORERS(SHOP, ENGINE HOUSES, ETC).....	1	732	27	7,011	.14	104.41	3.85	---	---	---	1	21	---	---	711	27
GENERAL LABORERS(STORES AND ICE, RECLAMATION, ETC).	1	329	7	4,040	.25	81.44	1.73	---	---	---	---	9	---	1	320	7
STATIONARY ENGINEERS(STEAM).....	---	11	---	503	---	21.87	---	---	---	---	---	---	---	---	11	---
STATIONARY FIREMEN, OILERS, COAL PASSERS, AND ETC..	---	9	1	302	---	29.80	3.31	---	---	---	---	---	---	---	9	1
Subtotal.....	6	12,014	273	191,369	.03	62.78	1.43	---	2	---	3	221	2	3	11,791	271
V.--TRANSPORTATION																
CHIEF TRAIN DISPATCHERS.....	---	3	---	1,978	---	1.52	---	---	---	---	---	---	---	---	3	---
TRAIN DISPATCHERS.....	---	6	1	4,551	---	1.32	.22	---	---	---	---	---	---	---	6	1
TRAIN DIRECTORS.....	---	2	---	286	---	5.99	---	---	---	---	---	---	---	---	2	---
STATION AGENTS(SUPERVISORY, MAJOR STATIONS).....	---	5	---	2,499	---	2.00	---	---	---	---	---	1	---	---	4	---
STATION AGENTS(SMALLER STATIONS, NONTELEGRAPHERS)..	---	16	---	2,705	---	5.91	---	---	---	---	---	---	---	---	16	---
STATION AGENTS(TELEGRAPHERS AND TELEPHONERS).....	---	15	---	4,611	---	3.25	---	---	---	---	---	1	---	---	14	---
CHIEF TELEGRAPHERS AND TELEPHONERS OR WIRE CHIEFS..	---	2	---	1,184	---	1.69	---	---	---	---	---	---	---	---	2	---
CLERK-TELEGRAPHERS AND CLERK-TELEPHONERS.....	---	38	1	5,586	---	6.80	.18	---	---	---	---	---	---	---	38	1
TELEGRAPHERS, TELEPHONERS, AND TOWERMEN.....	---	68	---	9,263	---	7.34	---	---	---	---	---	1	---	---	67	---
STATIONMASTERS AND ASSISTANTS.....	---	7	---	161	---	43.48	---	---	---	---	---	1	---	---	6	---
SUPERVISING BAGGAGE AGENTS.....	---	---	---	19	---	---	---	---	---	---	---	---	---	---	---	---
BAGGAGE AGENTS AND ASSISTANTS.....	---	8	---	44	---	181.82	---	---	---	---	---	3	---	---	5	---
BAGGAGE, PARCEL ROOM, AND STATION ATTENDANTS.....	---	57	2	1,716	---	33.22	1.17	---	---	---	---	4	---	---	53	2
GENERAL FOREMEN(FREIGHT STATIONS, WAREHOUSES, ETC).	---	2	---	132	---	15.15	---	---	---	---	---	---	---	---	2	---
ASST. GENERAL FOREMAN(FRT STATIONS, WAREHOUSES)....	---	---	---	94	---	---	---	---	---	---	---	---	---	---	---	---
GANG FOREMEN(FREIGHT STATION, WAREHOUSE, ETC).....	---	4	---	300	---	13.33	---	---	---	---	---	---	---	---	4	---
CALLERS, LOADERS, SEALERS, SCALERS, ETC.....	---	13	1	375	---	34.67	2.67	---	---	---	---	---	---	---	13	1
TRUCKERS(STATIONS, WAREHOUSES, AND PLATFORMS).....	---	25	---	287	---	87.11	---	---	---	---	---	1	---	---	24	---
LABORERS(COAL AND ORE DOCKS AND GRAIN ELEVATORS)...	---	53	3	1,252	---	42.33	2.40	---	---	---	---	3	1	---	50	2
COMMON LABORERS(STATIONS, WAREHOUSES, PLATFORMS)...	---	88	1	527	---	166.98	1.90	---	---	---	---	---	---	---	88	1
STEWARDS, RESTAURANT & LODGING-HOUSE MANAGERS, ETC.	---	57	1	361	---	157.89	2.77	---	7	---	---	25	1	---	25	---
CHEFS AND COOKS(RESTAURANTS OR DINING CARS).....	---	56	4	1,088	---	51.47	3.68	---	7	---	---	31	3	---	18	1
WAITERS, CAMP COOKS, KITCHEN HELPERS, ETC.....	---	100	2	4,287	---	23.33	.47	---	4	---	---	25	1	---	71	1
OFFICERS, WORKERS, ATT'ANTS ON BARGES, LAUNCHES....	---	22	---	497	---	44.27	---	---	---	---	---	2	---	---	20	---
TRANSPORTATION AND DINING-SERVICE INSPECTORS.....	---	1	---	335	---	2.99	---	---	---	---	---	---	---	---	1	---
PARLOR AND SLEEPING CARD CONDUCTORS.....	---	1	---	1	---	1000.00	---	---	---	---	---	---	---	---	1	---
TRAIN ATTENDANTS.....	---	251	4	2,173	---	115.51	1.84	---	31	---	---	118	1	---	102	3
BRIDGE OPERATORS AND HELPERS.....	---	12	---	1,242	---	9.66	---	---	---	---	---	---	---	---	12	---
CROSSING AND BRIDGE FLAGMEN AND GATEMEN.....	---	2	---	688	---	2.91	---	---	---	---	---	1	---	---	1	---
FOREMEN(LAUNDRY)AND LAUNDRY WORKERS.....	---	1	---	---	---	---	---	---	---	---	---	1	---	---	---	---
Subtotal.....	---	915	29	48,242	---	18.97	.41	---	49	---	---	218	7	---	648	13

TABLE S26. EMPLOYEE ON DUTY CASUALTIES FOR CLASS I LINE HAUL RAILROADS BY JOB CATEGORY

Class of Person	Class I Railroads (Line-Haul)															
	Kld	Total Inj	Ill	Man Hours (000)	Casualties per mill man-hrs Kld	Inj	Ill	Train Accidents Kld	Inj	Ill	Train Incidents Kld	Inj	Ill	Nontrain Incidents Kld	Inj	Ill
VI.—(a)TRANSPORTATION																
YARDMASTERS	1	78	3	8,026	.12	9.72	.37	—	—	—	—	10	—	1	68	3
ASSISTANT YARDMASTERS	—	1	—	262	—	3.82	—	—	—	—	—	1	—	—	—	—
SWITCH TENDERS	—	48	—	473	—	101.48	—	—	2	—	—	14	—	—	32	—
OUTSIDE HOSTLERS	—	170	1	3,373	—	50.40	.30	—	2	—	—	32	—	—	136	1
INSIDE HOSTLERS	—	63	1	1,605	—	39.25	.62	—	1	—	—	3	—	—	59	1
OUTSIDE HOSTLERS HELPERS	—	57	—	1,267	—	44.99	—	—	1	—	—	9	—	—	47	—
Subtotal	1	417	5	15,006	.07	27.79	.33	—	6	—	—	69	—	1	342	5
VI.—(b)TRANSPORTATION(train and engine)																
ROAD PASSENGER CONDUCTORS	—	237	7	3,188	—	74.34	2.20	—	3	—	—	91	1	—	143	6
ASSIST ROAD PASSENGER CONDUCTORS & TICKET COLLECTO.	—	196	10	3,695	—	53.04	2.71	—	—	1	—	80	3	—	116	6
ROAD FREIGHT CONDUCTORS(THROUGH FREIGHT)	2	734	12	16,476	.12	44.55	.73	2	41	1	—	416	6	—	277	5
ROAD FREIGHT CONDUCTORS(LOCAL AND WAY FREIGHT)	4	572	10	12,830	.31	44.58	.78	—	25	—	4	234	3	—	313	7
ROAD PASSENGER BAGGAGEMEN	1	13	—	410	2.44	31.71	—	—	—	—	—	6	—	1	7	—
ROAD PASSENGER BRAKEMEN AND FLAGEMEN	—	160	2	1,210	—	132.23	1.65	—	6	—	—	41	—	—	113	2
ROAD FREIGHT BRAKEMEN AND FLAGMEN(THROUGH FREIGHT).	5	1,916	40	32,083	.16	59.72	1.25	2	83	2	3	812	13	—	1,021	25
ROAD FREIGHT BRAKEMEN AND FLAGMEN(LOCAL & WAY FRGH.	6	1,824	31	24,362	.25	74.87	1.27	2	43	1	4	696	12	—	1,085	18
YARD CONDUCTORS AND YARD FOREMEN	1	987	17	23,011	.04	42.89	.74	—	7	—	1	342	5	—	638	12
YARD BRAKEMEN AND YARD HELPERS	7	4,097	87	42,178	.17	97.14	2.06	—	24	—	6	1,513	37	1	2,560	50
ROAD PASSENGER ENGINEERS AND MOTORMEN	1	134	24	3,276	.31	40.90	7.33	1	5	2	—	53	13	—	76	9
ROAD FREIGHT ENGINEERS AND MOTORMEN(THROUGH FRGHT).	1	492	16	17,764	.06	27.70	.90	1	39	—	—	191	7	—	262	9
ROAD FREIGHT ENGINEERS & MOTORMEN(LOCAL & WAY FRGH.	—	297	16	12,334	—	24.08	1.30	—	19	—	—	121	8	—	157	8
YARD ENGINEERS AND MOTORMEN	1	499	27	21,420	.05	23.30	1.26	—	15	—	1	213	10	—	271	17
ROAD PASSENGER FIREMEN AND HELPERS	—	64	11	1,640	—	39.02	6.71	—	5	2	—	23	6	—	36	3
ROAD FREIGHT FIREMEN AND HELPERS(THROUGH FREIGHT)..	1	174	6	5,988	.17	29.06	1.00	1	13	—	—	72	5	—	89	1
ROAD FREIGHT FIREMEN & HELPERS(LOCAL & WAY FRGHT)..	—	65	3	3,494	—	18.60	.86	—	2	1	—	31	—	—	32	2
YARD FIREMEN AND HELPERS	—	120	4	4,773	—	25.14	.84	—	4	—	—	44	3	—	72	1
Subtotal	30	12,581	323	230,132	.13	54.67	1.40	9	334	10	19	4,979	132	2	7,268	181
TOTAL	57	42,294	1,174	879,642	.06	48.08	1.33	10	424	10	30	6,022	144	17	35,848	1,020

TABLE S20. EMPLOYEE ON DUTY FATALITIES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions	---	---	---	---	---	---	4	4
Derailments	1	---	---	---	---	---	3	4
Miscellaneous	---	---	---	---	---	---	2	2
Total	1	---	---	---	---	---	9	10
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	3	3
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	1	1
Operating or on locomotives	---	---	---	---	---	---	---	---
Operating rail motorcars	---	1	1	---	---	---	---	2
Operating hand brakes	---	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	1	1
Getting on or off cars or locomotives	---	---	---	---	---	---	6	6
Collision/derailment/rr-hwy x-ing, etc(<= $3,700)	---	---	---	---	---	---	1	1
Struck by/ran into locos/cars(not at public x-ing	---	1	3	2	---	---	5	11
Servicing or maintenance of equipment	---	---	---	1	---	---	---	1
Maintenance of way and structures	---	---	3	---	---	---	---	3
Freight, baggage, express or mail	---	---	---	---	---	---	---	---
Windows, doors, etc	---	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C	---	---	---	---	---	---	2	2
Flying or falling objects, burns, etc., N.O.C	---	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	---	---	---	---	---	---
Assault	---	---	---	---	---	---	1	1
Other occurrences	---	---	---	---	---	---	1	1
Total	---	2	7	3	---	---	21	33
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	---	---
Operating rail motorcars	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	---	---
Operating switches or derails	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	1	1
Getting on or off cars or locomotives	---	---	---	---	---	---	---	---
Collision/derailment/rr-hwy x-ing, etc(<= $3,700)	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing	---	2	---	1	---	---	---	3
Servicing or maintenance of equipment	---	1	9	---	---	---	---	10
Maintenance of way and structures	---	---	---	---	---	---	---	---
Freight, baggage, express or mail	---	---	---	1	---	---	---	1
Windows, doors, etc	---	---	---	---	---	---	---	---
Passenger car doors	---	---	1	---	---	---	---	1
Stumbling, slipping, falling, caught, N.O.C	---	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C	---	---	---	---	---	---	---	---
Operation of on-track work equipment	---	---	1	---	---	1	1	3
Assault	---	---	1	2	---	---	---	3
Other occurrences	---	3	12	4	---	1	2	22
Total								
Grand total	1	5	19	7	---	1	32	65

KEY: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (yardmasters, switchtenders, hostlers)
VII = Transportation (train and engine)

TABLE S21. EMPLOYEE ON DUTY INJURIES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions	---	1	13	---	---	5	125	144
Derailments	1	---	7	2	44	1	147	202
Miscellaneous	4	---	7	---	5	---	79	95
Total	5	1	27	2	49	6	351	441
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	---	---	1	4	---	6	312	323
Coupling/uncoupling air/steam hose, safety chains	---	---	---	3	---	---	53	56
Operating or on locomotives	---	1	2	15	2	21	722	763
Operating rail motorcars	---	1	32	1	1	---	4	39
Operating hand brakes	---	1	1	2	---	4	165	173
Operating switches or derails	---	---	---	---	---	---	52	52
Contacting fixed objects while on locos or cars	---	---	---	---	2	---	144	146
Getting on or off cars or locomotives	1	4	6	15	8	24	1,505	1,563
Collision/derailment/rr-hwy x-ing, etc(<= $3,700).	1	1	35	8	5	2	204	256
Struck by/ran into locos/cars(not at public x-ing.	---	10	8	18	1	2	60	99
Servicing or maintenance of equipment	1	2	11	126	9	4	2	155
Maintenance of way and structures	1	1	202	7	---	---	2	213
Freight, baggage, express or mail	---	2	---	---	15	---	5	22
Windows, doors, etc	---	1	4	---	26	1	146	178
Passenger car doors	---	1	---	---	3	---	4	8
Stumbling, slipping, falling, caught, N.O.C	1	7	7	9	43	3	303	373
Flying or falling objects, burns, etc., N.O.C	1	4	12	6	32	6	854	915
Operation of on-track work equipment	---	3	198	12	---	---	14	227
Assault	---	1	1	1	2	---	199	204
Other occurrences	---	5	21	25	78	4	734	867
Total	6	45	541	252	227	77	5,484	6,632
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	2	6	2	36	5	15	780	846
Coupling/uncoupling air/steam hose, safety chains	1	3	5	99	1	9	373	491
Operating or on locomotives	---	1	2	43	---	20	373	439
Operating rail motorcars	---	3	106	2	---	---	---	111
Operating hand brakes	---	1	4	28	---	17	552	602
Operating switches or derails	1	2	32	36	16	50	1,563	1,700
Contacting fixed objects while on locos or cars	---	3	---	1	---	---	12	16
Getting on or off cars or locomotives	4	55	52	257	22	56	1,311	1,757
Collision/derailment/rr-hwy x-ing, etc(<= $3,700).	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing.	---	3	---	3	---	---	10	16
Servicing or maintenance of equipment	13	201	508	10,442	146	80	39	11,429
Maintenance of way and structures	29	439	13,270	615	71	7	26	14,457
Freight, baggage, express or mail	---	43	2	12	108	---	15	180
Windows, doors, etc	6	67	102	266	39	8	247	735
Passenger car doors	---	---	---	4	2	---	6	12
Stumbling, slipping, falling, caught, N.O.C	14	517	296	440	160	71	1,506	3,004
Flying or falling objects, burns, etc., N.O.C	4	113	49	64	46	14	601	891
Operation of on-track work equipment	---	2	148	15	---	---	3	168
Assault	1	101	38	22	9	3	86	260
Other occurrences	28	729	591	346	126	35	550	2,405
Total	103	2,289	15,207	12,731	751	385	8,053	39,519
Grand total	114	2,335	15,775	12,985	1,027	468	13,888	46,592

KEY: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (yardmasters, switchtenders, hostlers)
VII = Transportation (train and engine)

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TABLE S21A. LOST WORKDAYS RESULTING FROM NONFATAL INJURIES TO EMPLOYEES ON DUTY

Type of Occurrence	Total Cases	Cases With Days Away From Work Or Days Of Restriction: Total Cases	Lost Day Cases	Restricted Cases	Days Away From Work	Days Of Restriction	Other Cases
TRAIN ACCIDENTS							
Collisions	144	124	116	8	3,899	132	20
Derailments	202	181	173	8	4,331	201	21
Miscellaneous	95	78	66	12	1,454	107	17
Total	441	383	355	28	9,684	440	58
TRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	323	268	224	44	4,349	464	55
Coupling/uncoupling air/steam hose, safety chains	56	48	37	11	1,103	127	8
Operating or on locomotives	763	474	397	77	5,339	540	289
Operating rail motorcars	39	26	24	2	302	69	13
Operating hand brakes	173	154	129	25	2,699	306	19
Operating switches or derails	52	43	39	4	1,298	52	9
Contacting fixed objects while on locos or cars	146	119	104	15	1,749	217	27
Getting on or off cars or locomotives	1,563	1,324	1,117	207	21,214	3,085	239
Collision/derailment/rr-hwy x-ing, etc(<= $3,700)	256	204	179	25	4,288	296	52
Struck by/ran into locos/cars(not at public x-ing	99	80	69	11	1,753	167	19
Servicing or maintenance of equipment	155	118	95	23	1,956	369	37
Maintenance of way and structures	213	139	100	39	1,559	364	74
Freight, baggage, express or mail	22	17	16	1	139	4	5
Windows, doors, etc	178	127	114	13	1,870	139	51
Passenger car doors	8	6	6	---	68	---	2
Stumbling, slipping, falling, caught, N.O.C	373	315	284	31	6,740	319	39
Flying or falling objects, burns, etc., N.O.C	915	412	344	68	2,427	415	50
Operation of on-track work equipment	227	153	118	35	2,345	481	7
Assault	204	146	140	6	1,708	91	5
Other occurrences	867	683	598	85	12,770	1,066	18
Total	6,632	4,856	4,134	722	75,676	8,571	1,77
NONTRAIN INCIDENTS							
Coupling and uncoupling locomotives or cars	846	677	550	127	10,222	1,449	1
Coupling/uncoupling air/steam hose, safety chains	491	345	288	57	4,390	553	1
Operating or on locomotives	439	283	246	37	4,708	479	1
Operating rail motorcars	111	77	68	9	992	128	
Operating hand brakes	602	472	397	75	6,795	889	1
Operating switches or derails	1,700	1,416	1,181	235	21,906	3,038	2
Contacting fixed objects while on locos or cars	16	8	7	1	86	4	
Getting on or off cars or locomotives	1,757	1,408	1,174	234	19,895	3,098	3
Struck by/ran into locos/cars(not at public x-ing	16	12	11	1	317	90	
Servicing or maintenance of equipment	11,429	6,475	4,785	1,690	72,109	16,476	4,
Maintenance of way and structures	14,457	8,247	5,970	2,277	86,515	22,865	6,
Freight, baggage, express or mail	180	140	133	7	1,797	45	
Windows, doors, etc	735	457	353	104	5,105	1,327	1
Passenger car doors	12	9	8	1	107	10	
Stumbling, slipping, falling, caught, N.O.C	3,004	2,407	2,059	348	37,895	5,002	
Flying or falling objects, burns, etc., N.O.C	891	424	377	47	3,320	296	
Operation of on-track work equipment	168	100	79	21	1,307	152	
Assault	260	192	185	7	2,906	106	
Other occurrences	2,405	1,421	1,234	187	18,803	1,966	
Total	39,519	24,570	19,105	5,465	299,175	57,973	14
Grand total	46,592	29,809	23,594	6,215	384,535	66,984	1

TABLE S22. EMPLOYEE ON DUTY ILLNESSES BY JOB CATEGORY

Type accident/incident	I	II	III	IV	V	VI	VII	Total
TRAIN ACCIDENTS								
Collisions	---	---	---	---	---	---	---	---
Derailments	---	---	---	---	---	---	2	2
Miscellaneous	---	---	---	---	---	---	8	8
Total	---	---	---	---	---	---	10	10
TRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	---	---
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	---	---
Operating or on locomotives	---	---	---	---	---	---	44	44
Operating rail motorcars	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	1	1
Operating switches or derails	---	---	---	---	---	---	---	---
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---	---
Collision/derailment/rr-hwy x-ing, etc(<= $3,700)	---	---	---	1	1	---	1	3
Struck by/ran into locos/cars(not at public x-ing	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	---	---	---	1	---	---	1
Maintenance of way and structures	---	---	---	---	---	---	---	---
Freight, baggage, express or mail	---	---	---	---	---	---	---	---
Windows, doors, etc	---	---	---	---	---	---	---	---
Passenger car doors	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C	---	---	---	---	---	---	---	---
Flying or falling objects, burns, etc., N.O.C	---	2	---	1	3	---	91	97
Operation of on-track work equipment	---	---	1	---	---	---	---	1
Assault	---	---	---	---	---	---	---	---
Other occurrences	---	---	---	---	3	---	7	10
Total	---	2	1	2	8	---	144	157
NONTRAIN INCIDENTS								
Coupling and uncoupling locomotives or cars	---	---	---	---	---	---	1	1
Coupling/uncoupling air/steam hose, safety chains	---	---	---	---	---	---	3	3
Operating or on locomotives	---	---	1	---	---	1	40	42
Operating rail motorcars	---	---	---	---	---	---	---	---
Operating hand brakes	---	---	---	---	---	---	1	1
Operating switches or derails	---	---	1	---	---	---	2	3
Contacting fixed objects while on locos or cars	---	---	---	---	---	---	---	---
Getting on or off cars or locomotives	---	---	---	---	---	---	---	---
Collision/derailment/rr-hwy x-ing, etc(<= $3,700)	---	---	---	---	---	---	---	---
Struck by/ran into locos/cars(not at public x-ing	---	---	---	---	---	---	---	---
Servicing or maintenance of equipment	---	6	4	239	2	---	---	251
Maintenance of way and structures	---	9	292	17	1	---	---	319
Freight, baggage, express or mail	---	---	---	---	---	---	---	---
Windows, doors, etc	---	---	---	---	---	---	1	1
Passenger car doors	---	---	---	---	---	---	---	---
Stumbling, slipping, falling, caught, N.O.C	---	---	1	2	---	---	2	5
Flying or falling objects, burns, etc., N.O.C	2	14	5	2	7	4	107	141
Operation of on-track work equipment	---	---	1	---	---	---	---	1
Assault	---	1	---	---	---	---	---	1
Other occurrences	2	29	222	19	8	---	30	310
Total	4	59	527	279	18	5	187	1,079
Grand total	4	61	528	281	26	5	341	1,246

KEY: I = Executives, officials, and staff assistants
II = Professional, clerical, and general
III = Maintenance of way and structures
IV = Maintenance of equipment and stores
V = Transportation (other than train, engine, and yard)
VI = Transportation (yardmasters, switchtenders, hostlers)
VII = Transportation (train and engine)

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TABLE R15. SUMMARY OF NONFATAL EMPLOYEE ON DUTY INJURIES DUE TO ASSAULT, 1981

Railroad	.....Struck By Thrown Or Otherwise Propelled Object While: On Locomotive	On Caboose	On Cars	Not On Consist	...Other Assaults... On Consists	Not On Consists	Grand Total
CLASS I RAILROADS							
Alabama Great Southern Railroad Co	---	---	---	---	---	---	---
Amtrak (National RR Passenger Corp)	---	---	1	---	3	39	43
Atchison, Topeka And Santa Fe Rwy Co	1	1	---	---	---	4	6
Baltimore And Ohio Railroad Co	15	8	---	2	---	5	30
Bessemer And Lake Erie Railroad Co	---	---	---	---	---	---	---
Boston And Maine Corporation	---	---	1	1	1	1	6
Burlington Northern Incorporated	2	---	1	---	---	3	8
Central Of Georgia Railroad Company	1	3	---	1	---	---	---
Chesapeake And Ohio Railway Company	---	---	---	---	---	---	---
Chicago And Northwestern Transportation Co	3	2	---	2	1	4	12
Chicago, Milw, St. Paul And Pacific RR Co	2	2	1	1	3	11	20
Cincinnati, New Orleans And Texas Pacific	---	3	---	---	---	2	5
Clinchfield Railroad Company	---	---	---	---	---	---	---
Colorado And Southern Railway Co	---	1	---	---	---	---	1
Consolidated Rail Corporation	---	---	---	---	---	---	---
Delaware And Hudson Railway	46	13	7	3	25	48	142
Denver And Rio Grande Western RR Co	---	---	---	---	---	---	---
Detroit, Toledo And Ironton RR Co	---	---	1	---	---	---	1
Duluth, Missabe And Iron Range Rwy Co	---	---	---	---	---	---	---
Elgin, Joliet And Eastern Railway Co	---	---	---	---	---	---	---
Florida East Coast Railway Co	1	---	---	---	---	1	2
Forth Worth And Denver Railroad Co	1	---	---	---	---	---	1
Grand Truck Western Railroad Co	1	---	---	---	---	2	3
Illinois Central Gulf Railroad Co	---	1	---	1	2	---	4
Kansas City Southern Railway Co	2	4	3	---	---	7	16
Long Island Railroad Company	1	1	---	---	---	---	2
Louisiana And Arkansas Rwy Company	3	1	6	1	15	19	45
Louisville And Nashville Railroad Co	---	3	---	---	---	1	4
Missouri Pacific Railroad Co	4	---	---	---	---	---	4
Missouri-Kansas-Texas Railroad Co	6	4	---	2	2	4	18
Norfolk And Western Railway Co	---	---	---	---	---	2	2
Pittsburg And Lake Erie Railroad Co	2	1	1	3	---	2	9
Seaboard Coast Line Railroad Co	---	1	---	---	1	---	2
Sooline Railroad Company	1	7	---	---	---	1	9
Southern Pacific Transportation Co	---	---	---	---	---	---	---
Southern Railway Company	13	9	2	---	1	15	40
St. Louis Southwestern Railway Co	2	---	---	---	---	---	2
Union Pacific Railroad Co	1	---	---	---	1	1	3
Western Maryland Railway Company	---	---	---	---	1	3	4
Western Pacific Railroad Company	1	---	---	---	---	---	1
TOTAL CLASS I RAILROADS	---	1	---	1	---	---	2
	109	66	23	18	56	175	447
CLASS II RAILROADS							
Autotrain Corporation	---	---	---	---	---	---	---
Atlanta And West Point Railroad Co	---	---	---	---	---	---	---
Bangor And Aroostook Railroad Co	---	---	---	---	---	---	---
Canadian Pacific Lines In Maine	---	---	---	---	---	---	---
Central Vermont Railway Inc	---	---	---	---	---	---	---
Chicago And Illinois Midland Rwy Co	---	---	---	---	---	---	---
Chicago South Shore And South Bend RR	---	---	---	---	---	---	---
Colorado And Wyoming Railway Company	---	---	---	---	---	---	---
Detroit And Toledo Shore Line Railroad	---	---	---	---	---	---	---
Duluth, Winnipeg And Pacific Rwy Co	---	---	---	---	---	---	---
Georgia Railroad Lessee Organization	---	---	---	---	---	---	---
Georgia Southern And Florida Railway	---	---	---	---	---	---	1
Green Bay And Western Railroad	---	1	---	---	---	---	---
Illinois Terminal Railroad	---	---	---	---	---	---	---
Interstate Railroad Company	---	---	---	---	---	---	---
Lake Superior And Ishpeming Railroad Co	---	---	---	---	---	---	---
Maine Central Railroad Company	---	---	---	---	---	---	---
Michigan Interstate Railroad (Ann Arbor)	---	---	---	---	---	---	---
Monogahela Railway	---	---	---	---	---	---	---
Norfolk Southern Railway Company	---	---	---	---	---	---	---
Northwestern Pacific Railroad	---	---	---	---	---	---	---
Providence and Worcester Railroad Co	---	---	---	---	---	---	---
Richmond, Fredericksburg And Potomac RR Co	---	1	---	---	---	---	1
Spokane International Railroad	---	---	---	---	---	---	---
Texas And Northern Railway Company	---	---	---	---	---	---	---
Texas, Mexican Railway Company	---	---	---	---	---	1	1
Toledo, Peoria And Western Railroad Co	---	---	---	---	---	---	---
TOTAL CLASS II RAILROADS	---	2	---	---	---	1	3
RECAPITULATION (INCLUDES CLASS III RAILROADS)							
CLASS I RAILROADS	109	66	23	18	56	175	447
CLASS II RAILROADS	---	2	---	---	---	1	3
CLASS III RAILROADS	3	---	---	1	3	7	14
TOTAL ALL RAILROADS	112	68	23	19	59	183	464

TABLE S34. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	MISC CAUSES NOT OTHERWISE LISTED								
700	Collision with hwy user at grade xing..	50	1	---	1	---	---	38	11
709	Object on or fouling track.....	1	---	---	---	---	---	---	1
716	Other acts of God.....	2	2	---	2	---	---	---	---
799	Other miscellaneous causes.....	2	---	1	1	---	---	---	1
	SUBTOTAL.....	55	3	1	4	---	---	38	13
	GRAND TOTAL.....	55	3	1	4	---	---	38	13

TABLE S35. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MISCELLANEOUS FACTORS

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	MISC CAUSES NOT OTHERWISE LISTED								
700	Collision with hwy user at grade xing..	139	53	8	61	---	1	68	9
701	Emergency brk appl to avoid accident...	4	---	---	---	---	---	4	---
702	Vandalism.....	23	23	---	23	---	---	---	---
703	Interference with RR oper.-not vandals.	4	---	4	4	---	---	---	---
704	Load shifted.....	1	---	---	---	1	---	---	---
709	Object on or fouling track.....	25	17	4	21	---	2	1	1
710	Equipment on or fouling track.....	4	2	---	2	---	---	2	---
711	Trail/contain tiedown eqp-impr applied.	1	1	---	1	---	---	---	---
713	Interaction of lateral/vertical forces.	9	9	---	9	---	---	---	---
714	Failure to control spd with hand brake.	1	1	---	1	---	---	---	---
719	Objects such as lading chains or strap.	1	---	1	1	---	---	---	---
799	Other miscellaneous causes.....	7	4	3	7	---	---	---	---
	SUBTOTAL.....	219	110	20	130	1	3	75	10
	GRAND TOTAL.....	219	110	20	130	1	3	75	10

TABLE S28. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FLAGGING, FIXED, HAND AND RADIO SIGNALS								
520	Fixed signal, failure to comply.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	SPEED								
550	Coupling speed excessive.....	2	1	---	1	1	---	---	---
	SUBTOTAL.....	2	1	---	1	1	---	---	---
	MISCELLANEOUS								
599	Other train operation/human factors....	4	3	---	3	---	---	---	1
	SUBTOTAL.....	4	3	---	3	---	---	---	1
	GRAND TOTAL.....	7	5	---	5	1	---	---	1

TABLE S29. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY HUMAN FACTORS

Cause		Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	BRAKES, USE OF								
500	Automatic brake, improper use.....	4	4	---	4	---	---	---	---
502	Failure to secure engine (R.R. emp.)...	2	2	---	2	---	---	---	---
503	Failure to secure hnd brk (R.R. emp)...	5	5	---	5	---	---	---	---
505	Failure to apply hnd brk on car (emp.).	3	3	---	3	---	---	---	---
506	Fail. to secure eng/car (Non R.R. emp).	1	1	---	1	---	---	---	---
507	Independent (eng.) brake, improper use.	3	3	---	3	---	---	---	---
509	Other causes involving use of brakes...	3	2	---	2	---	1	---	---
	SUBTOTAL.....	21	20	---	20	---	1	---	---
	EMPLOYEE PHYSICAL CONDITION								
513	Employee falling asleep.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---	---
	FLAGGING, FIXED, HAND AND RADIO SIGNALS								
520	Fixed signal, failure to comply.....	12	12	---	12	---	---	---	---
521	Flagging, improper or failure to flag..	2	2	---	2	---	---	---	---
523	Hand signal, failure to comply.....	1	---	1	1	---	---	---	---
525	Hand signal, failure to give/receive...	2	1	1	2	---	---	---	---
529	Flagging, fixed, hand & radio (other)..	2	2	---	2	---	---	---	---
	SUBTOTAL.....	19	17	2	19	---	---	---	---
	OTHER RULES AND INSTRUCTIONS								
530	Car(s) shoved out & left out of clear..	1	1	---	1	---	---	---	---
533	Failure to stop train in clear.....	12	9	2	11	---	---	1	---
536	Mtr car/on-trk eqp rules,fail to cmply.	2	---	2	2	---	---	---	---
538	Shoving move, missing man at lead.....	7	6	1	7	---	---	---	---
539	Shoving movement, fail to control.....	9	5	4	9	---	---	---	---
541	Special op. instr., failure to comply..	2	2	---	2	---	---	---	---
542	Trn ord/timetable auth, fail to comply.	16	10	6	16	---	---	---	---
543	Trn ord(radio)err in prep/trans/deliv..	2	2	---	2	---	---	---	---
544	Trn ord(written)err in preparation,etc.	10	9	1	10	---	---	---	---
	SUBTOTAL.....	61	44	16	60	---	---	1	---
	SPEED								
550	Coupling speed excessive.....	3	3	---	3	---	---	---	---
553	Switch movement, excessive speed.....	4	2	2	4	---	---	---	---
554	Trn inside yrd limit, excess speed.....	15	15	---	15	---	---	---	---
559	Other Causes involving excessive speed.	7	6	---	6	---	---	---	1
	SUBTOTAL.....	29	26	2	28	---	---	---	1
	SWITCHES, USE OF								
561	Switch improperly lined.....	15	13	2	15	---	---	---	---
	SUBTOTAL.....	15	13	2	15	---	---	---	---
	MISCELLANEOUS								
570	Buffing or slack action excessive.....	5	4	---	4	1	---	---	---
571	Failure to couple.....	1	1	---	1	---	---	---	---
574	Passed couplers.....	4	4	---	4	---	---	---	---
575	Retarder, improper manual operation....	1	1	---	1	---	---	---	---
599	Other train operation/human factors....	20	13	2	15	---	4	1	---
	SUBTOTAL.....	31	23	2	25	1	4	1	---
	GRAND TOTAL.....	178	145	24	169	1	5	2	1

TABLE S31. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY MECHANICAL/ELECTRICAL FAILURES

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	BRAKES								
400	Air hose uncoupled or burst.....	1	1	---	1	---	---	---	---
405	Brk valve malf. (undesired emergency)..	2	---	---	---	---	---	---	2
407	Rigging down or dragging.....	1	1	---	1	---	---	---	---
410	Other brake failure(not on locomotive).	5	5	---	5	---	---	---	---
	SUBTOTAL.....	9	7	---	7	---	---	---	2
	TRAILER OR CONTAINER ON FLAT CAR								
411	Broken or defective tiedown equipment..	3	3	---	3	---	---	---	---
419	Oth trailer/container on flat car fail.	1	---	---	---	---	---	1	---
	SUBTOTAL.....	4	3	---	3	---	---	1	---
	BODY								
421	Center sill broken or bent.....	3	3	---	3	---	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---	---
	COUPLER AND DRAFT SYSTEM								
439	Other coupler and draft system causes..	2	2	---	2	---	---	---	---
	SUBTOTAL.....	2	2	---	2	---	---	---	---
	TRUCK COMPONENTS								
440	Side bearing clearance improper.....	4	3	1	4	---	---	---	---
442	Side bearing(s) missing.....	4	4	---	4	---	---	---	---
443	Truck bolster broken.....	1	1	---	1	---	---	---	---
445	Truck (stiff/improper lateral).....	1	---	1	1	---	---	---	---
449	Other truck component causes.....	1	---	1	1	---	---	---	---
	SUBTOTAL.....	11	8	3	11	---	---	---	---
	AXLES AND JOURNAL BEARINGS								
450	Broken or bent between wheel seats.....	1	1	---	1	---	---	---	---
451	Journal (plain) failure - overheating..	2	2	---	2	---	---	---	---
452	Journal (R. B.) failure - overheat.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	4	4	---	4	---	---	---	---
	WHEELS								
461	Broken rim.....	1	---	---	---	---	---	1	---
462L	Broken plate - locomotive.....	1	1	---	1	---	---	---	---
467	Loose wheel.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	3	2	---	2	---	---	1	---
	LOCOMOTIVES								
472L	Crank case/air box explosion - loco....	1	1	---	1	---	---	---	---
474L	Electrically caused fire - locomotive..	6	6	---	6	---	---	---	---
479L	Other causes involving locomotives.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	9	9	---	9	---	---	---	---
	GENERAL MECHANICAL AND ELECTRICAL								
499	General mech/elect failures-not loco...	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	GRAND TOTAL.....	46	38	4	42	---	---	2	2

TABLE S32. FATALITIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY DEFECTS IN TRACK, ROADBED, AND STRUCTURES

	Cause	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	RAIL AND JOINT BAR DEFECTS								
130	Bolt hole crack or break.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	GRAND TOTAL.....	1	1	---	1	---	---	---	---

TABLE S33. NONFATAL CASUALTIES RESULTING FROM TRAIN ACCIDENTS CAUSED BY DEFECTS IN TRACK, ROADBED AND STRUCTURES

	Cause	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	ROADBED DEFECTS								
101	Roadbed settled or soft.....	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	TRACK GEOMETRY DEFECTS								
110	Wide gage (defect/missing crossties)...	4	4	---	4	---	---	---	---
111	Wide gage (def/missing rail fasteners).	3	3	---	3	---	---	---	---
114	Track alignment irregular.....	2	2	---	2	---	---	---	---
115	Track alignment irregular (buckled)....	15	15	---	15	---	---	---	---
117	Superelevation incorrect.....	4	4	---	4	---	---	---	---
119	Cross level irregular at joints.....	29	6	16	22	---	2	5	---
120	Cross level irregular not at joints....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	59	36	16	52	---	2	5	---
	RAIL AND JOINT BAR DEFECTS								
130	Bolt hole crack or break.....	3	3	---	3	---	---	---	---
131	Broken base of rail.....	2	2	---	2	---	---	---	---
136	Head/web sep.(outside joint bar limit).	7	7	---	7	---	---	---	---
141	Transverse/compound fissure.....	4	4	---	4	---	---	---	---
142	Vertical split head.....	4	4	---	4	---	---	---	---
143	Worn rail.....	2	2	---	2	---	---	---	---
149	Other rail and joint bar defects.....	2	2	---	2	---	---	---	---
	SUBTOTAL.....	24	24	---	24	---	---	---	---
	FROGS, SWITCHES AND TRACK APPLIANCES								
163	Switch connecting/oper. rod fail.....	7	---	7	7	---	---	---	---
165	Switch point worn or broken.....	10	3	7	10	---	---	---	---
179	Other frog/switches/track appl. causes.	4	1	3	4	---	---	---	---
	SUBTOTAL.....	21	4	17	21	---	---	---	---
	OTHER WAY AND STRUCTURES								
189	Other way and structure causes.....	3	3	---	3	---	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---	---
	SIGNAL AND COMMUNICATION FAILURES								
201	Radio communication equipment failure..	1	---	---	---	---	---	1	---
203	Block signal displayed false proceed...	10	---	9	9	---	1	---	---
	SUBTOTAL.....	11	---	9	9	---	1	1	---
	GRAND TOTAL.....	119	68	42	110	---	3	6	---

TABLE S38. FATALITIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passer
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
001T	Adjusting coupler, equipment moving unexpectedly	1	1	---	1	---	---	---	---
003T	Crossing over, under or between on-track equipment, equipment moving	1	1	---	1	---	---	---	---
009T	Other acc/inc while coupling/uncoupling cars or locos - equip moving	1	1	---	1	---	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
059T	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OPERATING RAIL MOTORCARS								
159T	Other accidents/incidents while operating rail motorcars - eqp mov	2	---	2	2	---	---	---	---
	SUBTOTAL.....	2	---	2	2	---	---	---	---
	CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	2	1	---	1	---	---	1	---
	SUBTOTAL.....	2	1	---	1	---	---	1	---
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T	Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp mov	1	---	---	---	---	---	---	1
502T	Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp mov	2	2	---	2	---	---	---	---
505T	Slipping on ice or snow on ground - equipment moving	1	1	---	1	---	---	---	---
507T	Falling, slipping, tripping, not elsewhere classified - eqp moving	6	1	---	1	---	---	---	
508T	Slipping/falling while boarding/alighting fm passenger eqp (moving)	2	---	---	---	---	1	---	
510T	Striking body or falling due to sudden movement of equipment	1	---	---	---	---	---	---	
511T	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	3	1	---	1	---	---	---	
513T	Jumping from equipment - equipment moving	2	---	---	---	---	1	---	
519T	Other acc/inc while getting on or off cars or locos - equipment mov	4	1	---	1	---	---	---	
	SUBTOTAL.....	22	6	---	6	---	2	---	1
	COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= $3,700)								
602T	Casualty resulting fm a derailment which did not satisfy $ threshold	1	1	---	1	---	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	3	---	---	---	---	---	---	
609T	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	635	---	---	---	---	---	532	1
	SUBTOTAL.....	639	1	---	1	---	---	532	1
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701T	Standing, walking or running on or along track - equipment moving	139	2	2	4	---	---	2	1
702T	Crossing track at private rail-highway crossing - equipment moving	26	---	---	---	---	---	25	
703T	Crossing track not at a crossing - equipment moving	40	1	1	2	---	---	1	

TABLE S36. (CONTINUED)

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS) (CONT.)								
704T	While on public thoroughfare - equipment moving	3	---	---	---	---	---	2	1
705T	On bridges or trestles - equipment moving	17	---	---	---	---	---	---	17
706T	Sitting or lying on track or near track, not in clear - eqp moving	187	---	---	---	---	---	1	186
707T	While working on or along track - equipment moving	6	2	3	5	---	---	1	---
708T	Passing over, through, or under cars - equipment moving	10	---	---	---	1	---	---	9
709T	Struck by or ran into locos/cars (not at public X-ing),misc-eqp mov	30	---	---	---	---	---	2	28
	SUBTOTAL.....	458	5	6	11	1	---	34	412
	SERVICING OR MAINTENANCE OF EQUIPMENT								
803T	Striking or being struck by eqp, structures, or material-eqp mov	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	MAINTENANCE OF WAY AND STRUCTURES								
853T	Striking or being struck by eqp, structures, or material-eqp mov	3	---	3	3	---	---	---	---
	SUBTOTAL.....	3	---	3	3	---	---	---	---
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
902T	Struck or caught by shifted lading-eqp moving	2	---	---	---	---	---	---	2
	SUBTOTAL.....	2	---	---	---	---	---	---	2
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
934T	Slip/fall, etc. between loco/car and other cars and struct-eqp mov	1	1	---	1	---	---	---	---
935T	From bridges of trestles-equipment moving	2	---	---	---	---	---	---	2
938T	While on locomotive or car-equipment moving	5	1	---	1	---	---	---	4
939T	Other, stumbling, slipping, falling, caught, etc. - equipment moving	1	---	---	---	---	1	---	---
	SUBTOTAL.....	9	2	---	2	---	1	---	6
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
947T	Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	---	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	---	1
	ASSAULT								
960T	Struck by thrown or otherwise propelled object,while on loco-eqp mov	1	1	---	1	---	---	---	---
964T	Other assualts to persons on trains-equipment moving	1	---	---	---	---	---	---	1
	SUBTOTAL.....	2	1	---	1	---	---	---	1
	OTHER OCCURRENCES								
970T	Performing rerailing or other clearing operations-equipment moving	1	---	---	---	---	---	1	---
972T	Sudden movement of car, not otherwise classified	1	1	---	1	---	---	---	---
989T	Other accidents/incidents-equipment moving	10	---	---	---	---	1	1	8
	SUBTOTAL.....	12	1	---	1	---	1	2	8
	GRAND TOTAL.....	1,157	21	12	33	1	4	569	550

NOTE: Contractor employees are included with nontrespassers

TABLE S37. INJURIES IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

Occurrence		Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
001T	Adjusting coupler, equipment moving unexpectedly	18	16	2	18	---	---	---	---
002T	Adjusting coupler - equipment moving	21	20	1	21	---	---	---	---
003T	Crossing over, under or between on-track equipment, equipment moving	1	1	---	1	---	---	---	---
004T	Adjusting coupler, part of coupler fell striking person - eqp moving	1	1	---	1	---	---	---	---
005T	Use of uncoupling lever - equipment moving	83	83	---	83	---	---	---	---
006T	Use of uncoupling lever - equipment moving unexpectedly	13	13	---	13	---	---	---	---
007T	Striking parts of body against equipment - equipment moving	44	43	1	44	---	---	---	---
008T	Stumbled,slipped,fell,etc. on foreign obj/irreg surface-eqp moving	81	80	1	81	---	---	---	---
009T	Other acc/inc while coupling/uncoupling cars or locos - equip moving	62	55	6	61	---	---	1	---
	SUBTOTAL.....	324	312	11	323	---	---	1	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
052T	Uncoupl air hose,struck by hose due to sudden release of air-eqp mov	9	8	1	9	---	---	---	---
054T	Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp moving	16	16	---	16	---	---	---	---
055T	Defective equipment - equipment moving	1	1	---	1	---	---	---	---
056T	Burned by hot water or steam from hose - equipment moving	1	---	1	1	---	---	---	---
057T	Opening or closing angle cocks - equipment moving	14	13	1	14	---	---	---	---
059T	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp mov	15	15	---	15	---	---	---	---
	SUBTOTAL.....	56	53	3	56	---	---	---	---
	OPERATING OR ON LOCOMOTIVES								
101T	Burn or electrical shock - equipment moving	5	5	---	5	---	---	---	---
102T	Striking parts of body against equipment, moving about loco-eqp mov	40	36	4	40	---	---	---	---
103T	Struck by tools or other objects falling - equipment moving	13	12	1	13	---	---	---	---
104T	Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp moving	39	38	1	39	---	---	---	---
105T	Checking, oiling, servicing locomotive, etc. - equipment moving	3	3	---	3	---	---	---	---
106T	Unexpected movement of locomotive, other than slack action	107	97	10	107	---	---	---	---
107T	Slack action in locomotive	39	36	3	39	---	---	---	---
108T	Striking parts of body against equipment due to sudden stop of loco	52	48	4	52	---	---	---	---
109T	Inhalation of or contact with fumes or gases - equipment moving	18	18	---	18	---	---	---	---
110T	Defective locomotive seat - equipment moving	29	28	1	29	---	---	---	---
111T	Adjusting locomotive seat - equipment moving	9	8	1	9	---	---	---	---
112T	Foreign object in eye - equipment moving	324	309	15	324	---	---	---	---
119T	Other accidents/incidents while operating locomotives - eqp moving	85	84	1	85	---	---	---	---
	SUBTOTAL.....	763	722	41	763	---	---	---	---
	OPERATING RAIL MOTORCARS								
151T	Striking parts of body against equipment - equipment moving	10	3	7	10	---	---	---	---
152T	Struck by tools or other objects falling - equipment moving	1	---	1	1	---	---	---	---
153T	Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp mov	3	1	2	3	---	---	---	---
154T	Unexpected movement of rail motorcar	4	---	4	4	---	---	---	---
159T	Other accidents/incidents while operating rail motorcars - eqp mov	21	---	21	21	---	---	---	---
	SUBTOTAL.....	39	4	35	39	---	---	---	---

TABLE S37. (CONTINUED)

Occurrence		Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATING HAND BRAKES								
200T	Manipulating hand brakes, no defects, equipment moving	7	7	---	7	---	---	---	---
201T	Defective equipment - equipment moving	14	12	2	14	---	---	---	---
203T	Striking body due to movement of equipment	33	32	1	33	---	---	---	---
204T	Losing hold, slipping or falling due to coupling impact	22	19	3	22	---	---	---	---
205T	Caught between parts of equipment or lading - equipment moving	7	7	---	7	---	---	---	---
206T	Brake chains or bolts, breaking or giving way - equipment moving	6	6	---	6	---	---	---	---
207T	Losing hold, slipping, or falling - equipment moving	24	24	---	24	---	---	---	---
209T	Other accidents/incidents while operating hand brakes - eqp moving	60	58	2	60	---	---	---	---
	SUBTOTAL.....	173	165	8	173	---	---	---	---
	OPERATING SWITCHES OR DERAILS								
304T	Struck by moving on-track equipment	15	15	---	15	---	---	---	---
306T	Lining switches, no defects, eqp moving	1	1	---	1	---	---	---	---
309T	Other accidents/incidents while operating switches - equipment mov	36	36	---	36	---	---	---	---
	SUBTOTAL.....	52	52	---	52	---	---	---	---
	CONTACTING FIXED OBJECTS WHILE ON LOCOMOTIVES OR CARS								
401T	Persons on top locos/cars contacting fixed objects - equipment mov	12	12	---	12	---	---	---	---
402T	Persons on side/end of locos/cars contacting fixed objects - eqp mov	111	110	---	110	---	---	1	---
409T	Persons on loco/car coming in contact with fixed obj(other)-eqp mov	24	22	2	24	---	---	---	---
	SUBTOTAL.....	147	144	2	146	---	---	1	---
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
501T	Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp mov	101	87	2	89	---	---	1	11
502T	Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp mov	220	196	8	204	---	1	---	15
503T	Stepping or tripping on parts of track in place - equipment moving	61	55	5	60	---	---	---	1
504T	Stepping or tripping on foreign material or irreg surface - eqp mov	518	495	20	515	1	---	1	1
505T	Slipping on ice or snow on ground - equipment moving	25	25	---	25	---	---	---	---
506T	Slipping on ice/snow on cars or locomotives - equipment moving	8	8	---	8	---	---	---	---
507T	Falling, slipping, tripping, not elsewhere classified - eqp moving	129	100	2	102	---	3	---	24
508T	Slipping/falling while boarding/alighting fm passenger eqp (moving)	21	6	3	9	---	12	---	---
510T	Striking body or falling due to sudden movement of equipment	54	44	8	52	---	---	1	
511T	Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp mov	77	77	---	77	---	---	---	---
512T	Striking or being struck by bridges or trestles - equipment moving	2	2	---	2	---	---	---	---
513T	Jumping from equipment - equipment moving	125	75	5	80	---	13	6	2
514T	Defective equipment - equipment moving	24	24	---	24	---	---	---	---
519T	Other acc/inc while getting on or off cars or locos - equipment mov	328	311	5	316	---	1	2	
	SUBTOTAL.....	1,693	1,505	58	1,563	1	30	11	1

TABLE S37. (CONTINUED)

Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= $3,700)								
501T Casualty resulting fm a collision which did not satisfy $ threshold	103	88	13	101	---	---	2	---
502T Casualty resulting fm a derailment which did not satisfy $ threshold	84	68	12	80	1	---	3	---
503T Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	27	8	13	21	1	---	3	2
609T Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp mov	2,883	40	14	54	2	3	2,638	186
SUBTOTAL.....	3,097	204	52	256	4	3	2,646	188
STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701T Standing, walking or running on or along track - equipment moving	140	21	3	24	1	---	3	112
702T Crossing track at private rail-highway crossing - equipment moving	162	8	7	15	3	---	143	1
703T Crossing track not at a crossing - equipment moving	64	---	6	6	2	---	9	47
704T While on public thoroughfare - equipment moving	3	1	---	1	---	---	2	---
705T On bridges or trestles - equipment moving	19	---	1	1	---	---	1	17
706T Sitting or lying on track or near track, not in clear - eqp moving	117	---	---	---	---	---	3	114
707T While working on or along track - equipment moving	45	23	18	41	---	---	4	---
708T Passing over, through, or under cars - equipment moving	36	---	2	2	---	---	2	32
709T Struck by or ran into locos/cars (not at public X-ing),misc-eqp mov	45	7	2	9	---	---	6	30
SUBTOTAL.....	631	60	39	99	6	---	173	353
SERVICING OR MAINTENANCE OF EQUIPMENT								
802T Crossing over, under, or between locos or cars - equipment moving	6	---	5	5	1	---	---	---
803T Striking or being struck by eqp, structures, or material-eqp mov	63	2	61	63	---	---	---	---
814T Handling material by hand - moving ontrack equipment	1	---	1	1	---	---	---	---
815T Moving equipment for repairs	45	---	45	45	---	---	---	---
817T Foreign object in eye, using eye protection, eqp mov	1	---	1	1	---	---	---	---
823T Burned or irritated by hot,corrosive, or toxic sub, eqp mov	1	---	1	1	---	---	---	---
824T Stumbling, slipping, falling, caught, N.O.C. - equipment moving	3	---	3	3	---	---	---	---
825T Other acc/inc while servicing or maintaining eqp-eqp moving	38	---	36	36	1	---	1	---
SUBTOTAL.....	158	2	153	155	2	---	1	---
MAINTENANCE OF WAY AND STRUCTURES								
852T Crossing over, under, or between locos or cars-eqp moving	6	---	5	5	1	---	---	---
853T Striking or being struck by eqp, structures, or material-eqp mov	140	1	139	140	---	---	---	---
863T Loading and unloading materials - equipment moving	3	---	3	3	---	---	---	---
874T Stumbling, slipping, falling, caught, N.O.C. - equipment moving	3	1	2	3	---	---	---	---
889T Other acc/inc while maintaining way and structures-eqp moving	64	---	62	62	---	---	2	---
SUBTOTAL.....	216	2	211	213	1	---	2	---

TABLE S37. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FREIGHT, BAGGAGE, EXPRESS OR MAIL								
901T	Handling freight, baggage, express or mail-eqp moving	15	1	14	15	---	---	---	---
902T	Struck or caught by shifted lading-eqp moving	7	3	---	3	---	---	---	4
903T	Tripping over, or struck by falling baggage in passenger car-eqp mov	2	---	1	1	---	1	---	---
904T	Other acc/inc involving freight, baggage, express, or mail - eqp mov	4	1	2	3	---	1	---	---
	SUBTOTAL.....	28	5	17	22	---	2	---	4
	WINDOWS, DOORS, ETC								
907T	Opening/closing hopper or gondola hatches, end or bottom doors, eqp moving	1	---	1	1	---	---	---	---
909T	Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp mov	4	2	1	3	---	---	---	1
910T	Closing or opening plug type car doors, defective equipment-eqp mov	2	1	1	2	---	---	---	---
911T	Closing or opening plug type car doors, no defects-equipment mov	2	---	1	1	---	1	---	---
912T	Closing or opening coach trap doors-equipment moving	14	9	3	12	---	2	---	---
913T	Interior doors-equipment moving	54	31	9	40	---	14	---	---
914T	Opening or closing locomotive doors-equipment moving	46	44	2	46	---	---	---	---
915T	Opening or closing locomotive windows-equipment moving	11	11	---	11	---	---	---	---
916T	Opening or closing caboose doors-equipment moving	11	11	---	11	---	---	---	---
917T	Opening or closing caboose windows-equipment moving	3	3	---	3	---	---	---	---
919T	Other accidents/incidents involving windows or doors-eqp mov	50	34	14	48	---	2	---	---
	SUBTOTAL.....	198	146	32	178	---	19	---	1
	PASSENGER CAR DOORS								
920T	Caught by side doors while entering coach-equipment moving	1	---	---	---	---	1	---	---
921T	Caught by side doors while exiting coach-equipment moving	1	---	---	---	---	1	---	---
923T	Dragged by train while caught in side doors, exiting coach	1	1	---	1	---	---	---	---
924T	Struck by side doors while entering coach-equipment moving	4	1	---	1	---	3	---	---
925T	Struck by side doors while exiting coach-equipment moving	1	---	1	1	---	---	---	---
926T	Striking side door while entering coach-equipment moving	4	1	2	3	---	1	---	---
927T	Striking side door while exiting coach-equipment moving	3	1	1	2	---	1	---	---
	SUBTOTAL.....	15	4	4	8	---	7	---	---
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
930T	Stumbling/slipping, etc. on snow or ice - equipment moving	18	16	---	16	1	1	---	---
931T	Stumbling/slipping, etc. on foreign mat./irregular surface-eqp mov	115	97	13	110	1	4	---	---
932T	Stumbling/slipping, etc. on parts of track in place-equipment moving	16	14	2	16	---	---	---	---
933T	Slipping, caught, etc. on stairs, ramps, platforms - eqp mov	6	---	2	2	---	4	---	---
934T	Slip/fall, etc. between loco/car and other cars and struct-eqp mov	24	9	11	20	---	1	1	2
935T	From bridges of trestles-equipment moving	9	2	1	3	---	---	1	1
937T	Into depressions - equipment moving	13	13	---	13	---	---	---	---
938T	While on locomotive or car-equipment moving	213	125	31	156	2	45	2	6
939T	Other, stumbling, slipping, falling, caught, etc. - equipment moving	48	27	10	37	---	8	3	---
	SUBTOTAL.....	462	303	70	373	4	63	7	11

TABLE S37. (CONTINUED)

	Occurrence	Total Injured	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940T	Foreign object in eye-equipment moving	748	719	25	744	1	3	---	---
941T	Struck by flying of falling object (except assaults)-eqp mov	87	54	21	75	---	8	3	1
942T	Electrical flash, shock, or burn-equipment moving	3	1	2	3	---	---	---	---
943T	Fire or explosion of fusees or torpedoes-equipment moving	14	14	---	14	---	---	---	---
944T	Other fire or explosion-equipment moving	4	2	2	4	---	---	---	---
945T	Burned by hot or corrosive substances-equipment moving	48	39	7	46	---	2	---	---
946T	Inhalation of or contact with fumes or gases-equipment moving	15	15	---	15	---	---	---	---
947T	Electrical inj from contact with catenary, 3rd rail, etc., equipment moving	1	---	---	---	---	---	---	1
949T	Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	15	10	4	14	---	---	---	1
	SUBTOTAL.....	935	854	61	915	1	13	3	3
	OPERATION OF ON-TRACK WORK EQUIPMENT								
950T	Collision with train or car	10	1	9	10	---	---	---	---
951T	Collision with other on-track work equipment	28	---	28	28	---	---	---	---
952T	Jumping from equipment in anticipation of a collision	16	6	10	16	---	---	---	---
953T	Derailment that does not satisfy monetary threshold	84	5	79	84	---	---	---	---
954T	Getting on/off on-track work equipment - equipment moving	10	---	10	10	---	---	---	---
959T	Other A/I involving on-track work equipment - equipment moving	81	2	77	79	1	---	1	---
	SUBTOTAL.....	229	14	213	227	1	---	1	---
	ASSAULT								
960T	Struck by thrown or otherwise propelled object,while on loco-eqp mov	106	106	---	106	---	---	---	---
961T	Struck by thrown or otherwise propelled object,while no cab-eqp mov	61	61	---	61	---	---	---	---
962T	Struck by thrown or otherwise propelled object,while on car-eqp mov	24	13	3	16	---	8	---	---
964T	Other assualts to persons on trains-equipment moving	23	19	2	21	1	1	---	---
	SUBTOTAL.....	214	199	5	204	1	9	---	---
	OTHER OCCURRENCES								
971T	Loco or car coming against car placed for loading or unloading	17	10	6	16	---	---	1	---
972T	Sudden movement of car, not otherwise classified	135	52	60	112	6	13	3	1
974T	Slack action in caboose	417	409	8	417	---	---	---	---
975T	Slack action, other	81	72	6	78	---	1	---	2
976T	Emergency or severe application of air brakes due to def eqp	13	11	2	13	---	---	---	---
977T	Emergency or severe application of air brakes not due to def eqp	46	43	3	46	---	---	---	---
978T	Motor vehicle A/I (other than rail highway grade crossing) - eqp std	8	1	7	8	---	---	---	---
980T	Horse play - equipment moving	1	---	---	---	---	---	---	1
982T	Insect bites, moving	4	4	---	4	---	---	---	---
986T	Unexpected move of caboose, not slack action (include emergency & severe brking)	86	79	7	86	---	---	---	---
988T	Other accidents/incidents while in caboose, equipment moving	14	14	---	14	---	---	---	---
989T	Other accidents/incidents-equipment moving	94	39	34	73	1	7	4	9
	SUBTOTAL.....	916	734	133	867	7	21	8	13
	GRAND TOTAL.....	10,346	5,484	1,148	6,632	28	167	2,854	665

NOTE: Contractor employees are included with nontrespassers

TABLE S38. ILLNESS IN TRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	OPERATING OR ON LOCOMOTIVES								
109T	Inhalation of or contact with fumes or gases - equipment moving	35	35	---	35	---	---	---	---
119T	Other accidents/incidents while operating locomotives - eqp moving	9	9	---	9	---	---	---	---
	SUBTOTAL.....	44	44	---	44	---	---	---	---
	OPERATING HAND BRAKES								
200T	Manipulating hand brakes, no defects, equipment moving	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= $3,700)								
602T	Casualty resulting fm a derailment which did not satisfy $ threshold	2	1	1	2	---	---	---	---
603T	Casualty resulting fm oth than Rail Equip A/I(not at rail-hwy X-ing)	1	---	1	1	---	---	---	---
	SUBTOTAL.....	3	1	2	3	---	---	---	---
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
709T	Struck by or ran into locos/cars (not at public X-ing),misc-eqp mov	1	---	---	---	---	---	---	1
	SUBTOTAL.....	1	---	---	---	---	---	---	1
	SERVICING OR MAINTENANCE OF EQUIPMENT								
825T	Other acc/inc while servicing or maintaining eqp-eqp moving	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
942T	Electrical flash, shock, or burn-equipment moving	1	1	---	1	---	---	---	---
943T	Fire or explosion of fusees or torpedoes-equipment moving	5	4	1	5	---	---	---	---
945T	Burned by hot or corrosive substances-equipment moving	6	6	---	6	---	---	---	---
946T	Inhalation of or contact with fumes or gases-equipment moving	81	77	3	80	1	---	---	---
949T	Other A/I resulting from flying/falling objs, burns, etc. - eqp mov	5	3	2	5	---	---	---	---
	SUBTOTAL.....	98	91	6	97	1	---	---	---
	OPERATION OF ON-TRACK WORK EQUIPMENT								
959T	Other A/I involving on-track work equipment - equipment moving	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	OTHER OCCURRENCES								
972T	Sudden movement of car, not otherwise classified	1	1	---	1	---	---	---	---
989T	Other accidents/incidents-equipment moving	9	6	3	9	---	---	---	---
	SUBTOTAL.....	10	7	3	10	---	---	---	---
	GRAND TOTAL.....	159	144	13	157	1	---	---	1

NOTE: Contractor employees are included with nontrespassers

TABLE S39A. FATALITIES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	GETTING ON OR OFF CARS OR LOCOMOTIVES								
519	Other acc/inc while getting on or off cars or locos - equipment std	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	COLLISIONS, DERAILMENTS, PUBLIC RAIL-HWY CROSSING, ETC.(<= $3,701)								
609	Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	17	---	---	---	---	---	16	1
	SUBTOTAL.....	17	---	---	---	---	---	16	1
	STRUCK BY OR RAN INTO LOCOMOTIVES OR CARS (NOT AT PUBLIC X-INGS)								
701	Standing, walking or running on or along track - equipment standing	2	---	---	---	---	---	---	2
703	Crossing track not at a crossing - equipment standing	1	---	---	---	---	---	---	1
709	Struck by or ran into locos/cars (not at public X-ing),misc-eqp std	1	---	---	---	---	---	---	1
	SUBTOTAL.....	4	---	---	---	---	---	---	4
	SERVICING OR MAINTENANCE OF EQUIPMENT								
810	Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---	---	---
811	Use of lift trucks and other portable material handling eqp	2	---	2	2	---	---	---	---
	SUBTOTAL.....	3	---	3	3	---	---	---	---
	MAINTENANCE OF WAY AND STRUCTURES								
853	Striking or being struck by eqp, structures, or material-eqp std	2	---	2	2	---	---	---	---
859	Use of scaffolds, ladders, etc.	2	---	2	2	---	---	---	---
860	Use of cranes, hoists, derricks, piledrivers, etc.	1	---	1	1	---	---	---	---
863	Loading and unloading materials	1	---	1	1	---	---	---	---
869	Struck by flying of falling object	1	---	1	1	---	---	---	---
870	Electrical flash, shock, or burn	1	---	1	1	---	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	1	---	---	---	---	---	1	---
875	Use of maintenance of way equipment not elsewhere classified	1	---	1	1	---	---	---	---
889	Other acc/inc while maintaining way and structures	1	---	---	---	---	---	1	---
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	1	---	1	1	---	---	---	---
	SUBTOTAL.....	12	---	10	10	---	---	2	---
	WINDOWS, DOORS, ETC								
910	Closing or opening plug type car doors, defective equipment-eqp std	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
935	From bridges or trestles	1	---	---	---	---	---	---	1
939	Other, stumbling, slipping, falling, caught, etc.	3	---	1	1	---	---	1	1
	SUBTOTAL.....	4	---	1	1	---	---	1	2

TABLE S39A. (CONTINUED)

	Occurrence	Total Killed	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passen-gers	Nontres-passers	Tres-passers
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
942	Electrical flash, shock, or burn	2	---	---	---	---	---	---	2
947	Electrical injury due to contact with catenary, pantograph or 3rd rail	6	---	---	---	---	---	1	5
	SUBTOTAL.....	8	---	---	---	---	---	1	7
	ASSAULT								
963	Struck by thrown or otherwise propelled object, not on on-track eqp	1	---	1	1	---	---	---	---
969	Other assualts to persons not on trains	3	1	1	2	---	---	1	---
	SUBTOTAL.....	4	1	2	3	---	---	1	---
	OTHER OCCURRENCES								
97C	Performing rerailing or other clearing operations	1	---	---	---	---	---	1	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	3	---	2	2	---	---	---	1
989	Other accidents/incidents	6	---	1	1	---	---	2	3
	SUBTOTAL.....	10	---	3	3	---	---	3	4
	GRAND TOTAL.....	64	2	20	22	---	---	24	18

NOTE: Contractor employees are included with nontrespassers

TABLE S39B. INJURIES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRE ICE AND TYPE OF PERSON

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passer
A. COUPLING AND UNCOUPLING LOCOMOTIVES, OR CARS								
002 Adjusting coupler - equipment standing	352	331	21	352	---	---	---	---
003 Crossing over, under or between on-track equipment,equipment standing	9	8	1	9	---	---	---	---
004 Adjusting coupler, part of coupler fell striking person-eqp standing	75	70	4	74	---	---	1	---
005 Use of uncoupling lever - equipment standing	127	107	20	127	---	---	---	---
007 Striking parts of body against equipment - equipment standing	45	39	6	45	---	---	---	---
008 Stumbled,slipped,fell,stepped on foreign obj/irreg surface-eqp std	100	94	6	100	---	---	---	---
009 Other acc/inc while coupling/uncoupling cars or locos - equip std	139	131	8	139	---	---	---	---
SUBTOTAL	847	780	66	846	---	---	1	---
B. COUPLING OR UNCOUPLING AIR OR STEAM HOSE								
051 Crossing over, under or between on-track equipment, equipment standing	9	6	3	9	---	---	---	---
052 Uncoupl air hose,struck by hose due to sudden release of air-eqp std	59	44	15	59	---	---	---	---
053 Coupling air hose,stk by hose due to sudden release of air - eqp std	39	33	6	39	---	---	---	---
054 Stumbled,slipped,fell, or stepped on foreign obj, etc., eqp standing	89	70	19	89	---	---	---	---
055 Defective equipment - equipment standing	10	7	3	10	---	---	---	---
056 Burned by hot water or steam from hose - equipment standing	2	1	1	2	---	---	---	---
057 Opening or closing angle cocks - equipment standing	94	78	16	94	---	---	---	---
059 Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	189	134	55	189	---	---	---	---
SUBTOTAL	491	373	118	491	---	---	---	---
C. OPERATING OR ON LOCOMOTIVES								
101 Burn or electrical shock - equipment standing	10	9	1	10	---	---	---	---
102 Striking parts of body against equipment, moving about loco-eqp std	59	52	7	59	---	---	---	---
103 Struck by tools or other objects falling - equipment standing	19	13	6	19	---	---	---	---
104 Stumbled, slipped, fell, stepped on foreign obj, etc., - eqp std	109	89	20	109	---	---	---	---
105 Checking, oiling, servicing locomotive, etc. - equipment standing	36	23	13	36	---	---	---	---
109 Inhalation of or contact with fumes or gases - equipment standing	6	6	---	6	---	---	---	---
110 Defective locomotive seat - equipment standing	21	20	1	21	---	---	---	---
111 Adjusting locomotive seat - equipment standing	36	33	3	36	---	---	---	---
112 Foreign object in eye - equipment standing	80	73	7	80	---	---	---	---
119 Other accidents/incidents while operating locomotives - eqp standing	63	55	8	63	---	---	---	---
SUBTOTAL	439	373	66	439	---	---	---	---
D. OPERATING RAIL MOTORCARS								
151 Striking parts of body against equipment - equipment standing	3	---	3	3	---	---	---	---
152 Struck by tools or other objects falling - equipment standing	1	---	1	1	---	---	---	---
153 Stumbled, slipped, fell or stepped on foreign obj, etc., - eqp std	8	---	8	8	---	---	---	---
155 Placing or removing rail motorcar on or off rail	92	---	92	92	---	---	---	---
159 Other accidents/incidents while operating rail motorcars - eqp std	7	---	7	7	---	---	---	---
SUBTOTAL	111	---	111	111	---	---	---	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespasser
E. OPERATING HAND BRAKES								
200 Manipulating hand brakes, no defects, equipment standing	195	181	14	195	---	---	---	---
201 Defective equipment - equipment standing	53	49	4	53	---	---	---	---
202 Pawl slipping or accidentally knocked out of ratchet - eqp standing	7	7	---	7	---	---	---	---
203 Striking body not due to movement of equipment	29	24	5	29	---	---	---	---
205 Caught between parts of equipment or lading - equipment standing	8	7	1	8	---	---	---	---
206 Brake chains or bolts, breaking or giving way - equipment standing	30	25	5	30	---	---	---	---
207 Losing hold, slipping, or falling - equipment standing	85	79	5	84	---	---	1	---
208 Caught hand or fingers in spinning brake wheel - equipment standing	30	29	1	30	---	---	---	---
209 Other accidents/incidents while operating hand brakes - eqp standing	166	151	15	166	---	---	---	---
SUBTOTAL	603	552	50	602	---	---	1	---
F. OPERATING SWITCHES								
301 Slipped, tripped or fell due to ice or snow	40	36	4	40	---	---	---	---
302 Slipped, tripped or fell not due to ice or snow	115	106	9	115	---	---	---	---
303 Parts of body struck or caught by mechanism of switch	117	95	22	117	---	---	---	---
305 Lining switches, defective equipment	219	206	13	219	---	---	---	---
306 Lining switches, no defects	897	836	61	897	---	---	---	---
307 Manipulating derail, no defects	31	29	2	31	---	---	---	---
308 Manipulating derail, defective equipment	6	5	1	6	---	---	---	---
309 Other accidents/incidents while operating switches - equipment std	271	247	24	271	---	---	---	---
310 Other accidents/incidents involving derail	4	3	1	4	---	---	---	---
SUBTOTAL	1,700	1,563	137	1,700	---	---	---	---
G. PERSONS ON LOCOS OR CARS COMING IN CONTACT WITH FIXED OBJS								
401 Persons on top locos/cars contacting fixed objects - equipment std	3	1	2	3	---	---	---	---
402 Persons on side/end of locos/cars contacting fixed objects - eqp std	6	5	1	6	---	---	---	---
409 Persons on loco/car coming in contact with fixed obj(other)-eqp std	7	6	1	7	---	---	---	---
SUBTOTAL	16	12	4	16	---	---	---	---
H. GETTING ON OR OFF CARS OR LOCOMOTIVES								
501 Slip/fell due to lost/missed hold of grabiron,handhold,etc.-eqp std	112	71	36	107	1	2	1	1
502 Slip/fell due to losing/missing footing on step,stirrup,etc.-eqp std	390	277	104	381	1	6	2	---
503 Stepping or tripping on parts of track in place - equipment standing	54	43	11	54	---	---	---	---
504 Stepping or tripping on foreign material or irreg surface - eqp std	552	449	97	546	3	3	---	---
505 Slipping on ice or snow on ground - equipment standing	44	33	9	42	1	---	1	---
506 Slipping on ice/snow on cars or locomotives - equipment standing	30	23	7	30	---	---	---	---
507 Falling, slipping, tripping, not elsewhere classified - eqp std	159	104	43	147	5	5	1	1
508 Slipping/falling while boarding/alighting fm passenger eqp(standing)	133	22	16	38	1	93	1	---
511 Strike/struck by eqp/structures(not bridge/trestle), or mat -eqp std	62	44	18	62	---	---	---	---
513 Jumping from equipment - equipment standing	27	7	15	22	---	3	1	1
514 Defective equipment - equipment standing	28	22	6	28	---	---	---	---
519 Other acc/inc while getting on or off cars or locos - equipment std	312	216	84	300	2	8	1	1
SUBTOTAL	1,903	1,311	446	1,757	14	120	8	4

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespasser
I. RAIL EQUIPMENT AND RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT								
609 Casualty at public rail-hwy X-ing (not rptd on form 6180-54)-eqp std	103	---	---	---	---	---	98	5
SUBTOTAL	103	---	---	---	---	---	98	5
J. STRUCK BY/RAN INTO LOCOS OR CARS NOT AT HWY GRADE CROSSING								
701 Standing, walking or running on or along track - equipment standing	7	5	2	7	---	---	---	---
702 Crossing track at private rail-highway crossing - equipment standing	1	---	---	---	---	---	1	---
703 Crossing track not at a crossing - equipment standing	6	2	1	3	---	---	1	2
708 Passing over, through, or under cars - equipment standing	6	2	1	3	---	---	---	3
709 Struck by or ran into locos/cars (not at public X-ing),misc-eqp std	8	1	2	3	---	---	---	5
SUBTOTAL	28	10	6	16	---	---	2	10
K. SERVICING OR MAINTENANCE OF EQUIPMENT								
802 Crossing over, under, or between locos or cars - equipment standing	93	1	90	91	2	---	---	---
803 Striking or being struck by eqp, structures, or material-eqp std	898	3	893	896	1	---	1	---
804 Use of hand tools	1,409	1	1,403	1,404	---	---	5	---
805 Use of portable power tools	240	1	239	240	---	---	---	---
806 Use of welding equipment	196	---	195	195	1	---	---	---
807 Use of oxygen-acytelene, natural gas cuting equipment	207	---	206	206	1	---	---	---
808 Use of grinding equipment	82	---	82	82	---	---	---	---
809 Use of scaffolds, ladders, etc	129	---	129	129	---	---	---	---
810 Use of cranes, hoists, derricks, piledrivers, etc	186	---	186	186	---	---	---	---
811 Use of lift trucks and other portable material handling eqp	204	---	203	203	1	---	---	---
812 Use of shop machinery not elsewhere classified	193	---	193	193	---	---	---	---
813 Loading and unloading materials	386	2	384	386	---	---	---	---
814 Handling material by hand	1,726	6	1,719	1,725	---	---	1	---
816 Inhalation of or contact with fumes or gases	5	---	5	5	---	---	---	---
817 Foreign object in eye, using eye protection	483	---	480	480	2	---	1	---
818 Foreign object in eye, not using eye protection	491	9	476	485	6	---	---	---
819 Struck by flying or falling object	604	2	600	602	1	---	1	---
820 Electrical flash, shock, or burn	103	1	102	103	---	---	---	---
821 Fire or explosion of fusees or torpedoes	1	---	1	1	---	---	---	---
822 Other fire or explosion	31	---	31	31	---	---	---	---
823 Burned or irritated by hot, corrosive, or toxic substances	258	---	258	258	---	---	---	---
824 Stumbling, slipping, falling, caught, not elswhere classified	1,916	7	1,854	1,861	52	---	3	---
825 Other acc/inc while servicing or maintaining eqp-eqp std	1,675	6	1,661	1,667	6	---	2	---
SUBTOTAL	11,516	39	11,390	11,429	73	---	14	---
L. MAINTENANCE OF WAY AND STRUCTURES								
852 Crossing over, under, or between locos or cars-eqp std.	10	---	8	8	2	---	---	---
853 Striking or being struck by eqp, structures, or material-eqp std	697	3	689	692	2	---	3	---
854 Use of hand tools	1,710	3	1,701	1,704	4	---	2	---
855 Use of portable power tools	390	---	387	387	1	---	2	---
856 Use of welding equipment	83	---	83	83	---	---	---	---
857 Use of oxygen-acytelene, natural gas cutting equipment.	61	---	60	60	---	---	1	---
858 Use of grinding equipment	113	---	113	113	---	---	---	---
859 Use of scaffolds, ladders, etc	109	---	108	108	---	---	1	---
860 Use of cranes, hoists, derricks, piledrivers, etc	220	---	218	218	---	---	2	---
861 Use of lift trucks and other portable material handling eqp	106	---	103	103	---	---	3	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespasser
L. MAINTENANCE OF WAY AND STRUCTURES (CONT.)								
862 Use of shop machinery not elsewhere classified	59	---	59	59	---	---	---	---
863 Loading and unloading materials	1,047	2	1,040	1,042	3	---	2	---
864 Handling material by hand	1,695	5	1,682	1,687	3	---	5	---
866 Inhalation of or contact with fumes or gases	8	---	3	3	5	---	---	---
867 Foreign object in eye, using eye protection	253	---	248	248	1	---	4	---
868 Foreign object in eye, not using eye protection	375	3	370	373	1	---	1	---
869 Struck by flying of falling object	827	---	823	823	1	---	3	---
870 Electrical flash, shock, or burn	43	---	42	42	---	---	1	---
871 Fire or explosion of fusees or torpedoes	4	1	3	4	---	---	---	---
872 Other fire or explosion	33	---	30	30	3	---	---	---
873 Burned or irritated by hot, corrosive or toxic substances	109	---	109	109	---	---	---	---
874 Stumbling, slipping, falling, caught, not elsewhere classified	1,653	2	1,592	1,594	53	---	6	---
875 Use of maintenance of way equipment not elsewhere classified	280	---	278	278	---	---	2	---
876 Inserting or removing ties, switch timbers and tie plates by use of hand tools	1,383	1	1,380	1,381	---	---	2	---
877 Insert/remove ties, switch timbers and tie plates using portable power tools	181	1	179	180	---	---	1	---
878 Loading/unloading ties, switch timbers, tie plates and fastenings	743	1	738	739	2	---	2	---
879 Handling rail by use of power tools	129	---	129	129	---	---	---	---
880 Handling rail by use of hand tools	523	---	523	523	---	---	---	---
889 Other acc/inc while maintaining way and structures	715	3	700	703	5	---	7	---
890 Handling/inserting/removing rail anchors (includes being struck by anchors)	158	---	157	157	---	---	1	---
891 Handling/inserting/removing track spikes (includes being struck by flying spike)	670	1	669	670	---	---	---	---
892 Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	207	---	207	207	---	---	---	---
SUBTOTAL	14,594	26	14,431	14,457	86	---	51	---
M. MISCELLANEOUS								
1. FREIGHT, BAGGAGE, EXPRESS, OR MAIL								
901 Handling freight, baggage, express or mail	148	10	138	148	---	---	---	---
902 Struck or caught by shifted lading	6	1	5	6	---	---	---	---
903 Tripping over, or struck by falling baggage in passenger car-eqp std	5	1	4	5	---	---	---	---
904 Other accident/incident involving freight, baggage, express, or mail	22	3	18	21	---	---	1	---
SUBTOTAL	181	15	165	180	---	---	1	---
2. WINDOWS, DOORS, ETC.								
907 Opening/closing hopper or gondola hatches, end or bottom doors, eqp standing	25	1	24	25	---	---	---	---
908 Clo/opn frt/bag car doors, exc plug type car doors, def eqp-eqp std	50	7	41	48	---	---	2	---
909 Clo/opn frt/bag car doors, exc plug type car doors, no def-eqp std	101	10	89	99	---	---	2	---
910 Closing or opening plug type car doors, defective equipment-eqp std	28	2	26	28	---	---	---	---
911 Closing or opening plug type car doors, no defects-equipment std	39	---	39	39	---	---	---	---
912 Closing or opening coach trap doors-equipment standing	51	38	13	51	---	---	---	---
913 Interior doors-equipment standing	55	26	25	51	---	4	---	---
914 Opening or closing locomotive doors-equipment standing	111	82	29	111	---	---	---	---
915 Opening or closing locomotive windows-equipment standing	26	17	9	26	---	---	---	---
916 Opening or closing caboose doors-equipment standing	13	9	4	13	---	---	---	---
917 Opening or closing caboose windows-equipment standing	2	2	---	2	---	---	---	---
918 Opening and closing other windows	14	3	10	13	1	---	---	---
919 Other accidents/incidents involving windows or doors	252	50	179	229	11	8	4	---
SUBTOTAL	767	247	488	735	12	12	8	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passen- gers	Nontres- passers	Tres- passer
3. PASSENGER CAR DOORS								
920 Caught by side doors while entering coach-equipment standing	6	---	2	2	---	4	---	---
921 Caught by side doors while exiting coach-equipment standing	4	---	1	1	---	3	---	---
924 Struck by side doors while entering coach-equipment standing	4	2	2	4	---	---	---	---
925 Struck by side doors while exiting coach-equipment standing	4	3	1	4	---	---	---	---
927 Striking side door while exiting coach-equipment standing	1	1	---	1	---	---	---	---
SUBTOTAL	19	6	6	12	---	7	---	---
4. STUMBLING, SLIPPING, FALLING, CAUGHT, NOC								
930 Stumbling/slipping, etc. on snow or ice	449	179	206	385	51	5	8	---
931 Stumbling/slipping, etc. on foreign material or irregular surface	1,366	727	511	1,238	90	3	34	1
932 Stumbling/slipping, etc. on parts of track in place	256	137	92	229	15	2	6	4
933 Stumbling/slipping, etc. on stairways, ramps or platforms	567	80	289	369	54	51	90	3
934 Slip/fall, etc. between loco/car and other cars and struct-eqp std	73	38	20	58	6	7	1	1
935 From bridges or trestles	46	8	30	38	1	---	2	5
936 From structures other than bridges or trestles	36	8	26	34	---	---	2	---
937 Into depressions	173	100	64	164	6	---	3	---
938 While on locomotive or car-equipment standing	179	87	75	162	1	11	3	2
939 Other, stumbling, slipping, falling, caught, etc	366	142	185	327	22	2	11	4
SUBTOTAL	3,511	1,506	1,498	3,004	246	81	160	20
5. FLYING OR FALLING OBJECTS, BURNS AND SIMILAR CAUSES, NOC								
940 Foreign object in eye	605	485	103	588	13	---	4	---
941 Struck by flying of falling object (except assaults)	168	46	106	152	5	3	8	---
942 Electrical flash, shock, or burn	24	2	17	19	---	---	1	4
943 Fire or explosion of fusees or torpedoes	19	17	2	19	---	---	---	---
944 Other fire or explosion	14	2	10	12	---	---	2	---
945 Burned by hot or corrosive substances	47	26	19	45	2	---	---	---
946 Inhalation of or contact with fumes or gases	16	9	4	13	---	2	1	---
947 Electrical injury due to contact with catenary, pantograph or 3rd rail	24	1	1	2	---	---	---	22
949 Other acc/inc resulting from flying/falling objs, burns, etc	44	13	28	41	2	---	1	---
SUBTOTAL	961	601	290	891	22	5	17	26
6. OPPERATION OF ON-TRACK WORK EQUIPMENT								
954 Getting on/off on-track work equipment - equipment standing	62	2	60	62	---	---	---	---
959 Other A/I involving on-track work equipment - equipment standing	106	1	105	106	---	---	---	---
SUBTOTAL	168	3	165	168	---	---	---	---
7. ASSAULT								
960 Struck by thrown or otherwise propelled object,while on loco-eqp std	6	6	---	6	---	---	---	---
961 Struck by thrown or otherwise propelled object,while on cab-eqp std	7	7	---	7	---	---	---	---
962 Struck by thrown or otherwise propelled object,while on car-eqp std	9	5	2	7	---	2	---	---
963 Struck by thrown or otherwise propelled object, not on on-track eqp	21	9	10	19	1	---	1	---
964 Other assaults to persons on trains - equipment standing	39	33	5	38	---	1	---	---
969 Other assualts to persons not on trains	206	26	157	183	12	1	10	---
SUBTOTAL	288	86	174	260	13	4	11	---

TABLE S39B. (CONTINUED)

Occurrence	Total Injuries	....Employees On Duty.... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespasser
8. OTHER CAUSES								
970 Performing rerailing or other clearing operations.....	90	16	73	89	---	---	1	---
978 Motor vehicle acc/inc (other than rail-highway grade crossing).....	781	126	588	714	44	---	16	7
979 Servicing and maintenance of highway vehicles.....	32	1	28	29	1	---	2	---
980 Horseplay.....	25	5	17	22	2	---	---	1
981 Animal bites, including snake bites.....	23	10	11	21	---	---	---	2
982 Insect bites.....	349	85	254	339	9	---	1	---
983 Incidents occurring in office setting involving clerical, staff, etc., personnel.....	429	3	415	418	11	---	---	---
984 Contact with poisonous plants.....	11	---	11	11	---	---	---	---
985 Stepping on nails or other sharp objects.....	93	32	58	90	3	---	---	---
987 Caboose fire, equipment standing.....	2	1	1	2	---	---	---	---
988 Other accidents/incidents while in caboose, equipment standing.....	50	42	7	49	1	---	---	---
989 Other accidents/incidents.....	716	229	392	621	68	2	18	7
SUBTOTAL.....	2,601	550	1,855	2,405	139	2	38	17
SUBTOTAL (MISCELLANEOUS OCCURRENCES).....	8,496	3,014	4,641	7,655	432	111	235	63
GRAND TOTAL.....	40,847	8,053	31,466	39,519	605	231	410	82

NOTE: Contractor employees are included with nontrespassers

TABLE S39C. ILLNESSES IN NONTRAIN INCIDENTS BY SPECIFIC OCCURRENCE AND TYPE OF PERSON

	Occurrance	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	COUPLING AND UNCOUPLING LOCOMOTIVES OR CARS								
009	Other acc/inc while coupling/uncoupling cars or locos - equip std	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	COUPLING/UNCOUPLING AIR OR STEAM HOSE, SAFETY CHAINS ETC.								
057	Opening or closing angle cocks - equipment standing	1	1	---	1	---	---	---	---
059	Oth A/I while coupl/uncoupl air/steam hose or turn angl cock-eqp std	2	2	---	2	---	---	---	---
	SUBTOTAL.....	3	3	---	3	---	---	---	---
	OPERATING OR ON LOCOMOTIVES								
109	Inhalation of or contact with fumes or gases - equipment standing	40	38	1	39	1	---	---	---
110	Defective locomotive seat - equipment standing	1	---	1	1	---	---	---	---
119	Other accidents/incidents while operating locomotives - eqp standing	2	2	---	2	---	---	---	---
	SUBTOTAL.....	43	40	2	42	1	---	---	---
	OPERATING HAND BRAKES								
209	Other accidents/incidents while operating hand brakes - eqp standing	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	OPERATING SWITCHES OR DERAILS								
309	Other accidents/incidents while operating switches - equipment std	3	2	1	3	---	---	---	---
	SUBTOTAL.....	3	2	1	3	---	---	---	---
	SERVICING OR MAINTENANCE OF EQUIPMENT								
804	Use of hand tools	5	---	5	5	---	---	---	---
806	Use of welding equipment	26	---	26	26	---	---	---	---
807	Use of oxygen-acytelene, natural gas cuting equipment	5	---	5	5	---	---	---	---
812	Use of shop machinery not elsewhere classified	2	---	2	2	---	---	---	---
813	Loading and unloading materials	3	---	3	3	---	---	---	---
814	Handling material by hand	19	---	19	19	---	---	---	---
816	Inhalation of or contact with fumes or gases	41	---	41	41	---	---	---	---
817	Foreign object in eye, using eye protection	1	---	1	1	---	---	---	---
818	Foreign object in eye, not using eye protection	2	---	2	2	---	---	---	---
819	Struck by flying or falling object	1	---	1	1	---	---	---	---
820	Electrical flash, shock, or burn	30	---	30	30	---	---	---	---
821	Fire or explosion of fusees or torpedoes	1	---	1	1	---	---	---	---
823	Burned or irritated by hot, corrosive, or toxic substances	56	---	56	56	---	---	---	---
824	Stumbling, slipping, falling, caught, not elsewhere classified	1	---	1	1	---	---	---	---
825	Other acc/inc while servicing or maintaining eqp-eqp std	58	---	58	58	---	---	---	---
	SUBTOTAL.....	251	---	251	251	---	---	---	---
	MAINTENANCE OF WAY AND STRUCTURES								
854	Use of hand tools	10	---	10	10	---	---	---	---
855	Use of portable power tools	7	---	7	7	---	---	---	---
856	Use of welding equipment	10	---	10	10	---	---	---	---
857	Use of oxygen-acytelene, natural gas cutting equipment	1	---	1	1	---	---	---	---
860	Use of cranes, hoists, derricks, piledrivers, etc.	2	---	2	2	---	---	---	---

TABLE S39C. (CONTINUED)

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	MAINTENANCE OF WAY AND STRUCTURES (CONT.)								
862	Use of shop machinery not elsewhere classified	1	---	1	1	---	---	---	---
863	Loading and unloading materials	10	---	10	10	---	---	---	---
864	Handling material by hand	20	---	20	20	---	---	---	---
866	Inhalation of or contact with fumes or gases	22	---	22	22	---	---	---	---
867	Foreign object in eye, using eye protection	1	---	1	1	---	---	---	---
870	Electrical flash, shock, or burn	20	---	20	20	---	---	---	---
871	Fire or explosion of fusees or torpedoes	1	---	1	1	---	---	---	---
872	Other fire or explosion	1	---	1	1	---	---	---	---
873	Burned or irritated by hot, corrosive or toxic substances	26	---	26	26	---	---	---	---
874	Stumbling, slipping, falling, caught, not elsewhere classified	3	---	3	3	---	---	---	---
875	Use of maintenance of way equipment not elsewhere classified	5	---	5	5	---	---	---	---
876	Inserting or removing ties, switch timbers and tie plates by use of hand tools	44	---	43	43	---	---	1	---
877	Insert/remove ties, switch timbers and tie plates using portable power tools	4	---	4	4	---	---	---	---
878	Loading/unloading ties, switch timbers, tie plates and fastenings	20	---	20	20	---	---	---	---
880	Handling rail by use of hand tools	3	---	3	3	---	---	---	---
889	Other acc/inc while maintaining way and structures	91	---	91	91	---	---	---	---
890	Handling/inserting/removing rail anchors (includes being struck by anchors)	3	---	3	3	---	---	---	---
891	Handling/inserting/removing track spikes (includes being struck by flying spike)	5	---	5	5	---	---	---	---
892	Working on or about sgnl or comm. poles, sgnl masts,sgnl cantilevers or catenary	10	---	10	10	---	---	---	---
	SUBTOTAL.....	320	---	319	319	---	---	1	---
	WINDOWS, DOORS, ETC								
919	Other accidents/incidents involving windows or doors	1	1	---	1	---	---	---	---
	SUBTOTAL.....	1	1	---	1	---	---	---	---
	STUMBLING, SLIPPING, FALLING, CAUGHT, NOT ELSEWHERE CLASSIFIED								
931	Stumbling/slipping, etc. on foreign material or irregular surface	2	1	1	2	---	---	---	---
936	From structures other than bridges or trestles	1	---	1	1	---	---	---	---
939	Other, stumbling, slipping, falling, caught, etc.	2	1	1	2	---	---	---	---
	SUBTOTAL.....	5	2	3	5	---	---	---	---
	FLYING OR FALLING OBJECTS, BURNS AND SIMILAR OCCURRENCES, N.O.C.								
940	Foreign object in eye	1	---	1	1	---	---	---	---
945	Burned by hot or corrosive substances	2	2	---	2	---	---	---	---
946	Inhalation of or contact with fumes or gases	132	101	30	131	1	---	---	---
949	Other acc/inc resulting from flying/falling objs, burns, etc.	9	4	3	7	2	---	---	---
	SUBTOTAL.....	144	107	34	141	3	---	---	---
	OPERATION OF ON-TRACK WORK EQUIPMENT								
959	Other A/I involving on-track work equipment - equipment standing	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---

TABLE S39C. (CONTINUED)

	Occurrence	Total Illness	...Employees On Duty... Trainmen	Other	Total	Emp Not On Duty	Passengers	Nontrespassers	Trespassers
	ASSAULT								
969	Other assaults to persons not on trains	1	---	1	1	---	---	---	---
	SUBTOTAL.....	1	---	1	1	---	---	---	---
	OTHER OCCURRENCES								
970	Performing rerailing or other clearing operations	7	---	7	7	---	---	---	---
978	Motor vehicle acc/inc (other than rail-highway grade crossing)	4	---	4	4	---	---	---	---
980	Horseplay	1	---	1	1	---	---	---	---
981	Animal bites, including snake bites	4	1	3	4	---	---	---	---
982	Insect bites	41	13	24	37	4	---	---	---
983	Incidents occurring in office setting involving clerical, staff, etc., personnel	5	---	5	5	---	---	---	---
984	Contact with poisonous plants	217	3	214	217	---	---	---	---
988	Other accidents/incidents while in caboose, equipment standing	2	2	---	2	---	---	---	---
989	Other accidents/incidents	34	11	22	33	1	---	---	---
	SUBTOTAL.....	315	30	280	310	5	---	---	---
	GRAND TOTAL.....	1,089	187	892	1,079	9	---	1	---

NOTE: Contractor employees are included with nontrespassers

APPENDIX A
REPORTABILITY REQUIREMENTS AND DEFINITIONS

REPORTABILITY REQUIREMENTS

The rules governing the monthly reporting of railroad accidents/incidents in effect at the end of 1981 define a reportable accident/incident as an event arising from the operation of a railroad which, with minor exceptions, results in one or more of the following circumstances:

(a) Any impact between railroad on-track equipment and an automobile, bus, truck, motorcycle, bicycle, farm vehicle, pedestrian, or other highway user at a rail-highway crossing:

(b) Any collision, derailment, fire, explosion, act of God, or other event involving the operation of railroad on-track equipment, standing or moving, which results in more than $3,700 in damages to railroad on-track equipment, signals, track, track structures, and roadbed;

(c) Any event arising from the operation of a railroad which results in:

(i) the death of one or more persons;
(ii) an injury to one or more persons, other than railroad employees, which requires medical treatment;
(iii) an injury to one or more employees which requires medical treatment or results in: restriction of work or motion for one or more days, or one or more lost work days; transfer to another job; termination of employment; or loss of consciousness; or
(iv) any occupational illness of a railroad employee as diagnosed by a physician.

CLASSIFICATION OF ACCIDENTS/INCIDENTS

Train Accident. A collision, derailment, or other event involving the operation of railroad on-track equipment resulting in damages that exceed the reporting threshold.

Train Incident. An event involving the movement of railroad on-track equipment that results in a death, a reportable injury, or a reportable illness, but in which railroad property damage does not exceed the reporting threshold.

Non-train Incident. An event arising from railroad operations but not from the movement of on-track equipment, which does not exceed the reporting threshold, and results in a death, a reportable injury, or a reportable occupational illness.

DEFINITIONS

Accident. See "train accident," above.

Car. A railway car designed to carry freight, railroad personnel, or passengers. This includes boxcars, covered hopper cars, flatcars, refrigerator cars, gondola cars, hopper cars, tank cars, cabooses, stock cars, ventilation cars, and special cars. It also includes on-track maintenance equipment.

Casualty. A fatality, a nonfatal injury, or an occupational illness resulting from railroad operations.

Class I railroad. A railroad with an annual gross operating revenue in excess of $50 million.

Class II railroad. A railroad with an annual gross operating revenue of between $10 and $50 million.

Class III railroad. All switching and terminal companies, and all railroads with annual operating revenues of less than $10 million.

Consist. On-track railroad equipment such as train, locomotive, group of railcars, or a single railcar not coupled to another car or to a locomotive.

Contractor employee. A person employed by a contractor hired by a railroad to perform normal maintenance work to railroad rolling stock, track structure, bridges, buildings, etc.

Derailment. A derailment occurs when one or more than one unit of rolling stock equipment leaves the rails during train operations for a cause other than collision, explosion, or fire.

Employee. A person engaged in railroad operations who works for a railroad company in return for financial compensation.

Employee not on duty. A railroad employee who is on railroad property for a purpose connected with his or her employment or with other railroad permission, but who is not engaged in rail operations for financial or other compensation.

Fatality. The death of a person resulting from an injury incurred during railroad operations or resulting from an occupational illness, if death occurs within 365 days of initial diagnosis.

Hazardous materials. Any toxic substance, explosive, corrosive material, combustible material, poison, or radioactive material that poses a risk to the public's health, safety, or property when transported in commerce.

Human factor. Behavior affecting elements of railroad employee job performance.

Locomotive. A self-propelled unit of on-track equipment designed for moving other rail freight and passenger equipment on railroad tracks, including self-propelled units.

Locomotive-mile. The movement of a locomotive under its own power the distance of one mile.

Main track. Any track other than auxiliary track that extends through railroad yards or between stations and over which trains operate by time-table and/or train orders or the use of the track is governed by a signal system.

Man-hour. An industrial unit of production reflecting paid labor hours.

Nonfatal casualty. Injuries and occupational illnesses incurred during railroad operations and maintenance procedures.

Nontrepassers. A person who is lawfully on any part of railroad property which is used in railroad operations or a person who is adjacent to railroad premises when injured as the result of railroad operations.

Occupational illness. Any abnormal condition or disorder caused by environmental factors associated with a worker's employment, but not the result of an injury.

On-track equipment. Railroad rolling stock used to transport freight or passengers. Includes locomotives, railroad cars, maintenance equipment, and one or more locomotives coupled to one or more cars.

Operating practice. Railroad employee performance and adherence to the established operating rules of a railroad company.

Passenger. A person who is on, boarding, or alighting from a railroad car for the purpose of travel, without participating in its operation.

Public crossing. A location open to public travel where railroad tracks intersect a roadway that is under the jurisdiction and maintenance of a public authority.

Rail-highway crossing. A location where one or more railroad tracks intersect a public or private thoroughfare, a sidewalk, or a pathway.

Railroad. Any surface transportation system that carries passengers, goods, materials, or property over rails.

Reporting threshold. The level of railroad property damage, resulting from a train accident involving on-track equipment, over which a railroad

company must report the accident to the Federal Railroad Administration. Reportable damages include the cost of labor and the cost of repairing (or replacing in kind) damaged on-track equipment, track, track structures, or roadbed.

Revenue ton-mile. Revenue freight traffic measured in ton-miles.

Tank car. A railroad car consisting of a large cylindrical container attached to the railcar truck and used to transport liquids in bulk.

Ton-mile. A unit of measure equal to the movement of one ton of railroad lading for a distance of one mile.

Train. Locomotive unit or units, with or without cars, involved in railroad operations.

Trainmen. Persons employed as engineers and motormen, firemen and helpers, conductors, brakemen, and flagmen engaged in passenger, freight, yard or work service, and train baggagemen. Does not include hostlers.

Train-mile. A unit of comparative measure equal to the movement of one train for a distance of one mile.

Trepasser. Any person whose presence on railroad property, used in railroad operations, is prohibited or unlawful.

APPENDIX B1
REPORTING FORMS

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAILROAD INJURY AND ILLNESS SUMMARY

Form Approved
OMB No. 04-R4009

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH & YEAR	4. STATE ALPHABETIC CODE	5. COUNTY

NAME OF REPORTING OFFICER	OFFICIAL TITLE
ADDRESS	**TELEPHONE** *(Area Code) (Number)*

6.

I, _____, being first duly sworn, do say upon my oath that I
(Name of Affiant)
am _____, of the railroad aforesaid and as such officer of the said railroad it is my duty to have supervision
(Title of Office held by affiant)
over the record of reportable incidents arising from the operation of the said railroad, and that I have caused to be compiled from the said record and to be carefully examined the annexed report of such incidents occurring during the month named at the head of this sheet; and that the said report is true and complete to the best of my knowledge and belief.

Subscribed and sworn to before me, a notary public in and for the State and County aforesaid, this _____ day of _____, 19____.

(Use an im-
[L.S]
pression seal) _____ _____
(Notary Public) *(Signature of affiant)*

7. MILES RUN DURING MONTH

A. LOCOMOTIVE TRAIN MILES	B. MOTOR TRAIN MILES	C. YARD SWITCHING MILES	D. TOTAL

8.

A. EMPLOYEE MANHOURS WORKED	B. PASSENGER MILES OPERATED	C. NUMBER OF PASSENGERS TRANSPORTED

TOTAL TRAIN ACCIDENTS	TOTAL FRA FORMS 6180-55A	TOTAL FRA FORMS 6180-54	TOTAL FRA FORMS 6180-57

SECTION A—RECAPITULATION OF ALL CASUALTIES *INCLUDING* HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

CLASS OF PERSON FOR SECTIONS A AND B
1. Employees on duty
2. Employees not on duty
3. Passengers on trains
4. Other nontrespassers
5. Trespassers (all classes)
6. Contractor Employees
7. GRAND TOTAL

SECTION B—RECAPITULATION OF ALL HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT CASUALTIES

TRAIN ACCIDENTS		TRAIN INCIDENTS		NONTRAIN INCIDENTS		TOTAL	
Kld	Inj	Kld	Inj	Kld	Inj	Kld	Inj

SECTION C—MEMORANDUM—SUBSEQUENT FATALITIES DEVELOPED FROM REPORTED CASUALTIES

LINE NO.	ACCIDENT/INCIDENT NUMBER	TYPE PERSON OR JOB CODE	DATE OF INJURY	DATE OF DEATH	STATE
1.					
2.					
3.					
4.					

FORM FRA F 6180-55 (8-76) REPLACES FORM FRA F 6180-55 (12-74) WHICH IS OBSOLETE.

This report is required by law (45 USC 40). Failure to report can result in the imposition of civil penalties.

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAILROAD INJURY AND ILLNESS SUMMARY
(CONTINUATION SHEET)

FORM APPROVED
OMB NO. 04R4035

SHEET ____ OF ____

1. NAME OF REPORTING RAILROAD	2. ALPHABETIC CODE	3. REPORT MONTH

9.

CASUALTIES *(Cont.)*

a. ACCIDENT/ INCIDENT NUMBER	b. TYPE PERSON OR JOB CODE	c. INJURY OR ILLNESS CODE	d. OCCURRENCE CODE	e. AGE	f. NUMBER OF DAYS AWAY FROM WORK	g. NUMBER OF DAYS OF RESTRICTED ACTIVITY	h. CASES WITHOUT LOST WORK DAYS	i. STATE ALPHABETIC CODE

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO. 04R4008

1. NAME OF REPORTING RAILROAD — Amtrak / Autotrain | 1a. Alphabetic Code | 1b. Railroad Accident/Incident No.

2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT | 2a. Alphabetic Code | 2b. Railroad Accident/Incident No.

3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE *(single entry)* | 3a. Alphabetic Code | 3b. Railroad Accident/Incident No.

4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER | 5. DATE OF ACCIDENT/INCIDENT (month / day / year) | 6. TIME OF ACCIDENT/INCIDENT (am ☐ pm ☐)

7. TYPE OF ACCIDENT/INCIDENT *(enter number in code box, single entry)* — CODE

1. Derailment 2. Head on collision 3. Rear end collision 4. Side collision 5. Raking collision 6. Broken train collision 7. Rail-Highway crossing 8. RR grade crossing 9. Obstruction 10. Explosion-Detonation 11. Fire or violent rupture 12. Other *(specify)*

HAZARDOUS MATERIALS *(number of)*

8. CARS CARRYING	9. CARS DAMAGED OR DERAILED	10. CARS WHICH RELEASED HAZ. MAT.	11. PEOPLE EVACUATED *(est.)*

LOCATION

12. DIVISION	13. NEAREST STATION	14. MILEPOST *(to nearest tenth)*	15. STATE *(two letter code)* CODE

ENVIRONMENTAL CONDITIONS

16. TEMPERATURE *(specify if minus)* °F	17. VISIBILITY *(single entry)* CODE 1. Dawn 3. Dusk 2. Day 4. Dark	18. WEATHER *(single entry)* CODE 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow

OPERATIONAL DATA

19. METHOD *(place X in appropriate box(es))*

1 ☐ Manual block 2 ☐ Interlocking 3 ☐ Cab signal 4 ☐ Automatic block 5 ☐ Traffic control 6 ☐ Auto. train stop 7 ☐ Yard rules 8 ☐ Time table 9 ☐ Radio 10 ☐ Auto. train control 11 ☐ Verbal permission 12 ☐ Train orders 13 ☐ Other *(specify)*

20. SPEED *(recorded speed, if available)* Est. / MPH Recorded	21. TRAIN NUMBER	22. TIME TABLE DIRECTION CODE 1. North 2. South 3. East 4. West

EQUIPMENT

23. TRAILING TONS *(gross tonnage, excluding power units)*	24. TYPE OF EQUIPMENT CONSIST *(single entry)* CODE 1. Freight train 2. Passenger train 3. Mixed train 4. Work train 5. Single car 6. Cut of cars 7. Yard/switching 8. Light loco(s)	25. WAS THE EQUIPMENT IDENTIFIED IN ITEM 24 UNATTENDED? CODE 1. Yes 2. No

26. TRACK NUMBER OR NAME	27. FRA TRACK CLASSIFICATION	28. ANNUAL TRACK DENSITY *(gross tons in millions)*	29. TYPE OF TRACK CODE 1. Main 2. Yard 3. Siding 4. Industry

30. PRINCIPLE CAR/UNIT	30a. Initials and Number	30b. Position in Train	30c. Loaded *(yes or no)*
(1) First Involved *(derailed, struck, striking, etc.)*			
(2) Causing *(mechanical failures)*			

31. LOCOMOTIVE UNITS *(no. of)*	a. Head End	Mid Train b. Manual	Mid Train c. Remote	Rear End d. Manual	Rear End e. Remote	32. CARS *(no. of)*	Loaded a. Freight	Loaded b. Pass.	Empty c. Freight	Empty d. Pass.	e. Caboose
(1) Total in Train						(1) Total in Equipment Consist					
(2) Total Derailed						(2) Total Derailed					

PROPERTY DAMAGE *(estimated cost, including labor, to repair or replace)*

33. EQUIPMENT DAMAGE *(to be reported for this equipment consist only)* $	34. TRACK, SIGNAL, WAY AND STRUCTURES DAMAGE *(to be reported by railroad in item 3 only)* $

ACCIDENT/INCIDENT CAUSE CODE

35. PRIMARY CAUSE CODE	36. CONTRIBUTING CAUSE CODE	37. If no code available, explain cause.

CASUALTIES

38. NUMBER OF PERSONS INJURED	39. ESTIMATED TOTAL DAYS DISABILITY	40. NUMBER OF FATALITIES

CREW *(no. of)*

41. ENGINEERS	42. FIREMEN	43. CONDUCTORS	44. BRAKEMEN

HOURS ON DUTY

45. ENGINEER Hrs: Mins:	46. CONDUCTOR Hrs: Mins:

47. TYPED NAME AND TITLE	48. SIGNATURE	49. DATE

50. NARRATIVE DESCRIPTION – *Describe the cause, nature and circumstances of accident/incident*

FORM FRA F 6180-54 (13-74) REPLACES FORM FRA F 6180-10 (11-73) WHICH IS OBSOLETE

GPO 880-180

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

RAIL-HIGHWAY GRADE CROSSING ACCIDENT/INCIDENT REPORT

FORM APPROVED
OMB NO. 04R4033

1. NAME OF REPORTING RAILROAD — Amtrak ☐ Autotrain ☐ | 1a. Alphabetic Code | 1b. Railroad Accident/Incident No.

2. NAME OF OTHER RAILROAD INVOLVED IN TRAIN ACCIDENT/INCIDENT | 2a. Alphabetic Code | 2b. Railroad Accident/Incident No.

3. NAME OF RAILROAD RESPONSIBLE FOR TRACK MAINTENANCE *(single entry)* | 3a. Alphabetic Code | 3b. Railroad Accident/Incident No.

4. U.S. DOT-AAR GRADE CROSSING IDENTIFICATION NUMBER | 5. DATE OF ACCIDENT/INCIDENT month / day / year | 6. TIME OF ACCIDENT/INCIDENT am ☐ pm ☐

LOCATION

7. NEAREST RAILROAD STATION | 8. COUNTY | 9. STATE *(two letter code)* | CODE

10. CITY *(if in a city)* | 11. HIGHWAY NAME OR NUMBER *(if private crossing, so state)*

ACCIDENT/INCIDENT SITUATION

HIGHWAY USER INVOLVED

12. TYPE — 1. Auto 2. Truck 3. Truck-Trailer 4. Bus 5. School Bus 6. Motorcycle 7. Pedestrian 8. Other *(specify)* | CODE

13. SPEED *(estimated mph at impact)*

14. DIRECTION *(geographical)* — 1. North 2. South 3. East 4. West | CODE

15. POSITION — 1. Stalled on crossing 2. Stopped on crossing 3. Moving over crossing | CODE

RAILROAD EQUIPMENT INVOLVED

16. EQUIPMENT — 1. Train *(units pulling)* 2. Train *(units pushing)* 3. Train *(standing)* 4. Car(s) *(moving)* 5. Car(s) *(standing)* 6. Light loco(s) *(moving)* 7. Light loco(s) *(standing)* 8. Other *(specify)* | CODE

17. POSITION OF CAR/UNIT IN TRAIN | CODE

18. CIRCUMSTANCE — 1. Train struck highway user 2. Train struck by highway user | CODE

19. Was the highway user and/or rail equipment involved in the impact transporting hazardous materials? 1. Highway user 2. Rail equipment 3. Both 4. Neither | CODE

ENVIRONMENT

20. TEMPERATURE *(specify, if minus)* °F

21. VISIBILITY *(single entry)* — 1. Dawn 2. Day 3. Dusk 4. Dark | CODE

22. WEATHER *(single entry)* — 1. Clear 2. Cloudy 3. Rain 4. Fog 5. Sleet 6. Snow | CODE

TRAIN AND TRACK

23. TYPE OF TRAIN — 1. Freight 2. Passenger 3. Mixed 4. Work 5. Yard/Switching 6. Light Locomotive(s) | CODE

24. TRACK TYPE USED BY TRAIN INVOLVED — 1. Main 2. Yard 3. Siding 4. Industry | CODE

25. TRACK NUMBER OR NAME

26. FRA TRACK CLASSIFICATION

27. NUMBER OF LOCOMOTIVE UNITS

28. NUMBER OF CARS

29. TRAIN SPEED *(recorded speed, if available)* — Est ☐ MPH Recorded ☐

30. TIME TABLE DIRECTION — 1. North 2. South 3. East 4. West | CODE

CROSSING WARNING

31. TYPE *(place X in appropriate box(es))*

1 ☐	Gates	5 ☐	Hwy. Traffic Signals
2 ☐	Cantilever FLS	6 ☐	Audible
3 ☐	Standard FLS	7 ☐	Crossbucks
4 ☐	Wig Wags	8 ☐	Stop Signs
9 ☐	Watchman		
10 ☐	Flagged by crew		
11 ☐	Other *(specify)*		
12 ☐	None		

32. SIGNALED CROSSING WARNING — Was the signaled crossing warning identified in item 31 operating? 1. Yes 2. No | CODE

33. LOCATION OF WARNING — 1. Both sides 2. Side of vehicle approach 3. Opposite side of vehicle approach | CODE

34. CROSSING WARNING INTERCONNECTED WITH HIGHWAY SIGNALS — 1. Yes 2. No 3. Unknown | CODE

35. CROSSING ILLUMINATED BY STREET LIGHTS OR SPECIAL LIGHTS — 1. Yes 2. No 3. Unknown | CODE

MOTORIST ACTION

36. MOTORIST PASSED STANDING HIGHWAY VEHICLE — 1. Yes 2. No 3. Unknown | CODE

37. MOTORIST DROVE BEHIND OR IN FRONT OF TRAIN AND STRUCK OR WAS STRUCK BY SECOND TRAIN — 1. Yes 2. No 3. Unknown | CODE

38. MOTORIST — 1. Drove around or thru the gate 2. Stopped and then proceeded 3. Did not stop 4. Other *(specify)* 5. Unknown | CODE

39. VIEW OF TRACK OBSCURED BY *(primary obstruction)* — 1. Permanent structure 2. Standing railroad equipment 3. Passing train 4. Topography 5. Vegetation 6. Highway vehicles 7. Other *(specify)* 8. Not obstructed | CODE

HIGHWAY VEHICLE PROPERTY DAMAGE/CASUALTIES

40. HIGHWAY VEHICLE PROPERTY DAMAGE *(est. dollar damage)*

41. DRIVER WAS — 1. Killed 2. Injured 3. Uninjured | CODE

42. WAS DRIVER IN THE VEHICLE? — 1. Yes 2. No | CODE

43. TOTAL NUMBER OF OCCUPANTS KILLED

44. TOTAL NUMBER OF OCCUPANTS INJURED

45. TOTAL NUMBER OF OCCUPANTS *(include driver)*

46. IS A RAIL EQUIPMENT ACCIDENT/INCIDENT REPORT BEING FILED? 1. Yes 2. No | CODE

47. TYPED NAME AND TITLE

48. SIGNATURE

49. DATE

FORM FRA F 6180-57 (12-74) REPLACES FORM FRA F 6180-13 (10-67) WHICH IS OBSOLETE

GPO 930-940

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

OMB APPROVAL NO.
04-R4037

ANNUAL SUMMARY REPORT
of
RAILROAD INJURY AND ILLNESS

(Covering Calendar Year ____)

COMPLETE THIS REPORT WHETHER OR NOT THERE WERE ANY REPORTABLE OCCUPATIONAL INJURIES OR ILLNESSES. READ INSTRUCTIONS BEFORE COMPLETING THIS FORM

I. ESTABLISHMENTS INCLUDED IN THIS REPORT
This report should include all establishments located in, or identified by, the reporting railroad. Enter the number of establishments (see definition in the FRA Guide).

_____

II. AVERAGE EMPLOYMENT IN REPORTING YEAR
Enter the average number of employees during calendar year. Count all classes of employees, including seasonal, temporary, part-time, etc. See instructions in the FRA Guide for examples of computing your average employment.

_____ (Round to the nearest whole number)

III. TOTAL HOURS WORKED IN REPORTING YEAR
Enter the total number of hours actually worked by all employees. DO NOT include any non-work time even though paid, such as vacations, sick leave, holidays, etc.

_____ (Round to the nearest whole number)

IV. REPORTABLE INJURIES AND ILLNESSES
Did you have any reportable injuries or illnesses during the reporting year? (Check one)

(1) ☐ No - complete Section VII,

(2) ☐ Yes - complete Sections V, VI and VII.

V. MONTHLY DATA OF REPORTABLE INJURIES AND ILLNESSES
Of the Total Reportable Occupational Injuries and Illnesses (Section VI, Line 10 column 1), how many occurred in the following months?

Calendar Year

Jan. _____	Apr. _____	July _____	Oct. _____
Feb. _____	May _____	Aug. _____	Nov. _____
Mar. _____	June _____	Sept. _____	Dec. _____

CORPORATE NAME AND MAILING ADDRESS OF REPORTING RAILROAD →

Name	Alphabetic Railroad Code (See FRA Guide, Appendix A)
STREET	
CITY STATE ZIP CODE	

FORM FRA F6180-45 (7-76)
PREVIOUS EDITIONS ARE OBSOLETE.

This report is required by regulation (49 CFR 225). Failure to report can result in the imposition of civil penalties.

VI. INJURY AND ILLNESS SUMMARY (Covering Calendar Year _____)

INSTRUCTIONS:

- This section may be completed by Copying data from the "Annual Summary" which you are required to complete and post in your establishment.
- Leave Section VI blank if there were no reportable injuries or illnesses during the reporting year.
- Line 9 — Add all Occupational Illnesses (Lines 2 through 8) and enter on this line for each column (1) through (8).
- Line 10 - Add Occupational Injuries (Line 1) and the sum of all Occupational Illnesses (Line 9) and enter on this line for each column (1) through (8).

LINE	INJURY AND ILLNESS CATEGORY	TOTAL CASES (1)	DEATHS (2)	LOST WORKDAY CASES ONLY: Total lost workday cases (includes restricted workday cases) (3)	LOST WORKDAY CASES ONLY: Cases involving days away from work (4)	LOST WORKDAY CASES ONLY: Days away from work (5)	LOST WORKDAY CASES ONLY: Days of restricted work activity (6)	NONFATAL CASES WITHOUT LOST WORKDAYS (7)	TERMINATIONS OR PERMANENT TRANSFERS (8)
1	OCCUPATIONAL INJURIES								
2	OCCUPATIONAL ILLNESSES: Occupational Skin Diseases or Disorders								
3	OCCUPATIONAL ILLNESSES: Dust Diseases of the Lungs								
4	OCCUPATIONAL ILLNESSES: Respiratory Conditions Due to Toxic Agents								
5	OCCUPATIONAL ILLNESSES: Poisoning (Systemic Effects of Toxic Materials)								
6	OCCUPATIONAL ILLNESSES: Disorders Due to Physical Agents								
7	OCCUPATIONAL ILLNESSES: Disorders Associated With Repeated Trauma								
8	OCCUPATIONAL ILLNESSES: All Other Occupational Illnesses								
9	OCCUPATIONAL ILLNESSES: TOTAL OCCUPATIONAL ILLNESSES (Add Lines 2 through 8)								
10	TOTAL OCCUPATIONAL INJURIES AND ILLNESSES (Add Lines 1 and 9)								

VII. COMMENTS: _____

Report prepared by: _____ Area Code and Phone: _____

Title: _____ Date: _____

DEPARTMENT OF TRANSPORTATION
FEDERAL RAILROAD ADMINISTRATION

FORM APPROVED
OMB NO. 04R4034

ANNUAL RAILROAD REPORT
OF
MANHOURS BY STATE

1. REPORTING RAILROAD	ALPHABETIC CODE	2. REPORT YEAR

3. ANNUAL MANHOURS

A. STATE	B. CODE	C. M/HRS.	A. STATE	B. CODE	C. M/HRS.
(1) ALABAMA	AL		(26) MONTANA	MT	
(2) ALASKA	AK		(27) NEBRASKA	NE	
(3) ARIZONA	AZ		(28) NEVADA	NV	
(4) ARKANSAS	AR		(29) NEW HAMPSHIRE	NH	
(5) CALIFORNIA	CA		(30) NEW JERSEY	NJ	
(6) COLORADO	CO		(31) NEW MEXICO	NM	
(7) CONNECTICUT	CT		(32) NEW YORK	NY	
(8) DELAWARE	DE		(33) NORTH CAROLINA	NC	
(9) DISTRICT OF COLUMBIA	DC		(34) NORTH DAKOTA	ND	
(10) FLORIDA	FL		(35) OHIO	OH	
(11) GEORGIA	GA		(36) OKLAHOMA	OK	
(12) IDAHO	ID		(37) OREGON	OR	
(13) ILLINOIS	IL		(38) PENNSYLVANIA	PA	
(14) INDIANA	IN		(39) RHODE ISLAND	RI	
(15) IOWA	IA		(40) SOUTH CAROLINA	SC	
(16) KANSAS	KS		(41) SOUTH DAKOTA	SD	
(17) KENTUCKY	KY		(42) TENNESSEE	TN	
(18) LOUISIANA	LA		(43) TEXAS	TX	
(19) MAINE	ME		(44) UTAH	UT	
(20) MARYLAND	MD		(45) VERMONT	VT	
(21) MASSACHUSETTS	MA		(46) VIRGINIA	VA	
(22) MICHIGAN	MI		(47) WASHINGTON	WA	
(23) MINNESOTA	MN		(48) WEST VIRGINIA	WV	
(24) MISSISSIPPI	MS		(49) WISCONSIN	WI	
(25) MISSOURI	MO		(50) WYOMING	WY	

4. TYPED NAME AND TITLE	5. SIGNATURE	6. DATE

FORM FRA F 6180-56 (8-74) SUBMIT THIS FORM WITH THE FRA F 6180-55, DECEMBER REPORT.